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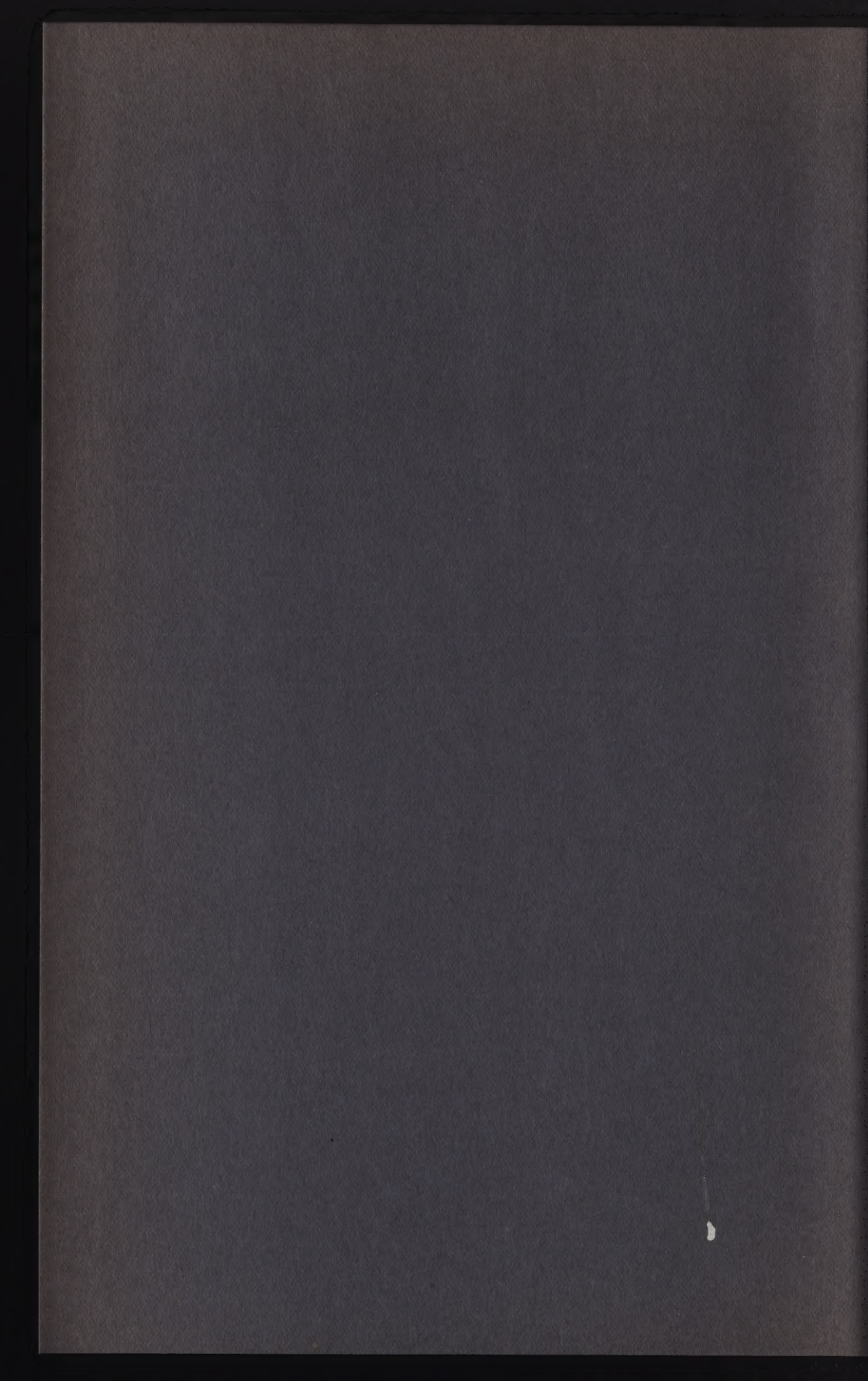
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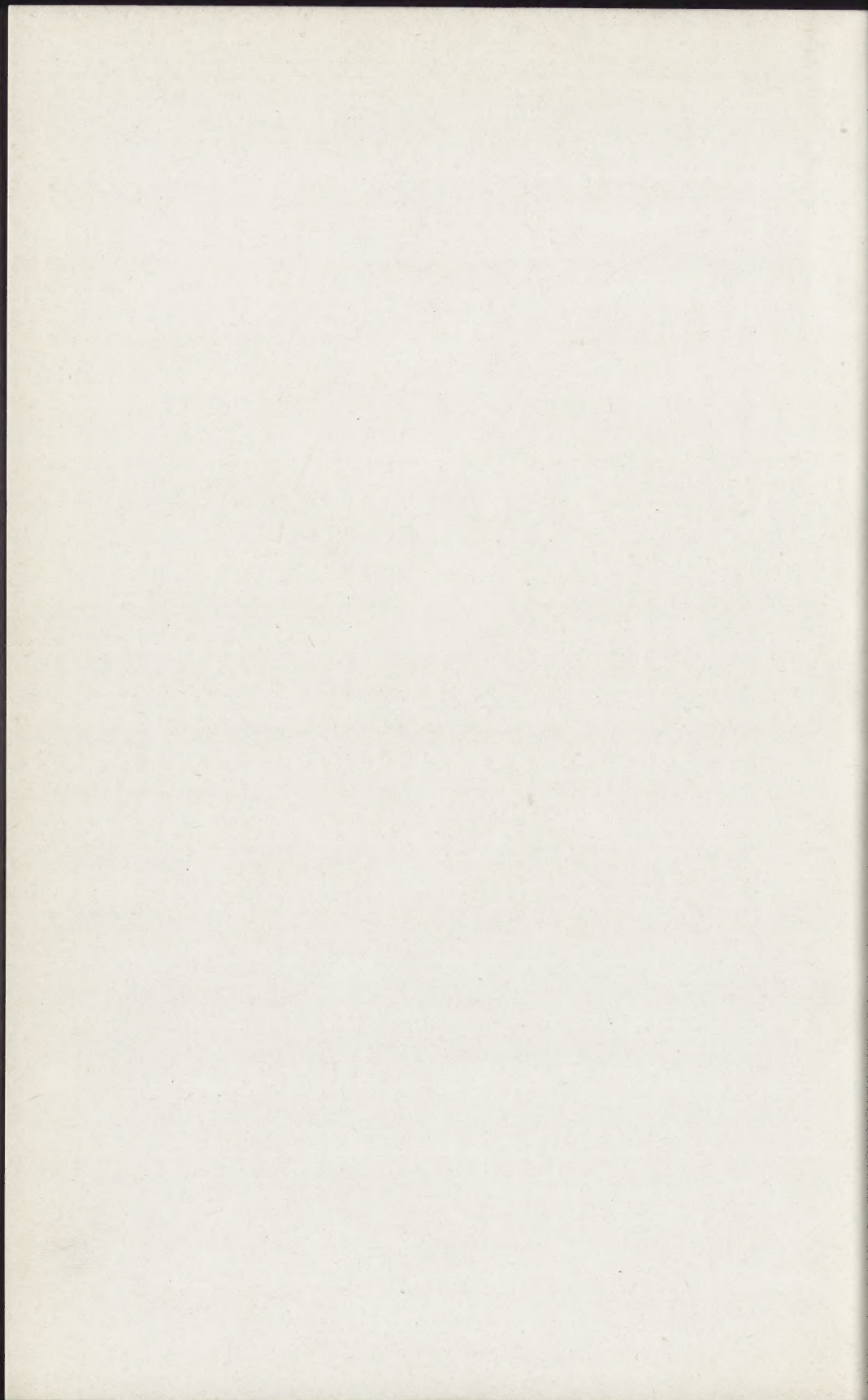




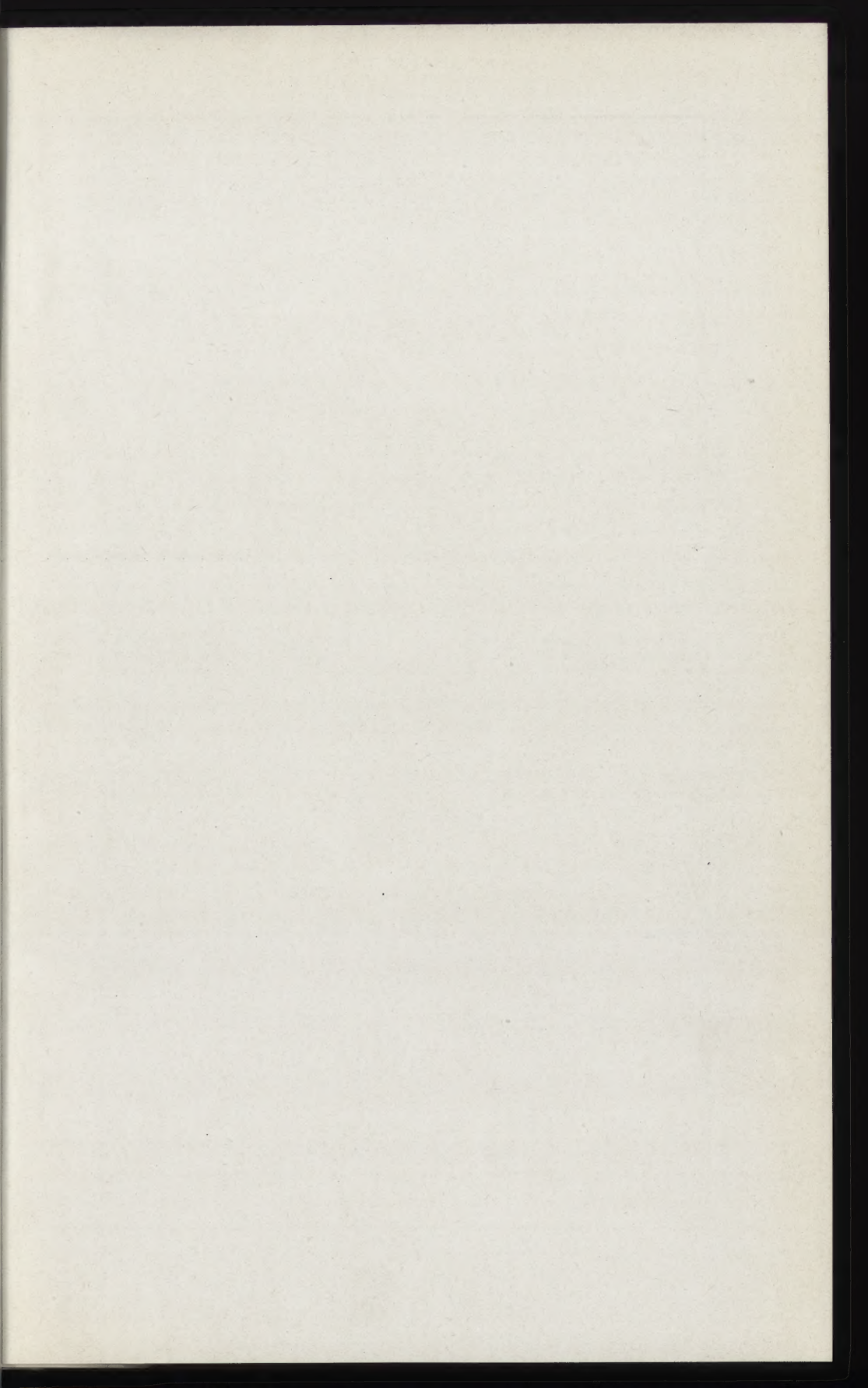


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BRASS FOUNDRY AND FINISHING DEPARTMENT  
OFFICE AND SHOWROOM

ESTABLISHED 1871

INCORPORATED 1891

CATALOGUE "J"  
1922

# RUNDLE-SPENCE MFG. CO.

PRODUCERS OF SUPPLIES

*for*

PLUMBERS AND STEAM  
FITTERS  
PHILADELPHIA



GENERAL OFFICE, SHOWROOMS AND WORKS:

MILWAUKEE, WIS.



This Copy is No. 1336 of an  
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RUNDLE - SPENCE MFG. CO.

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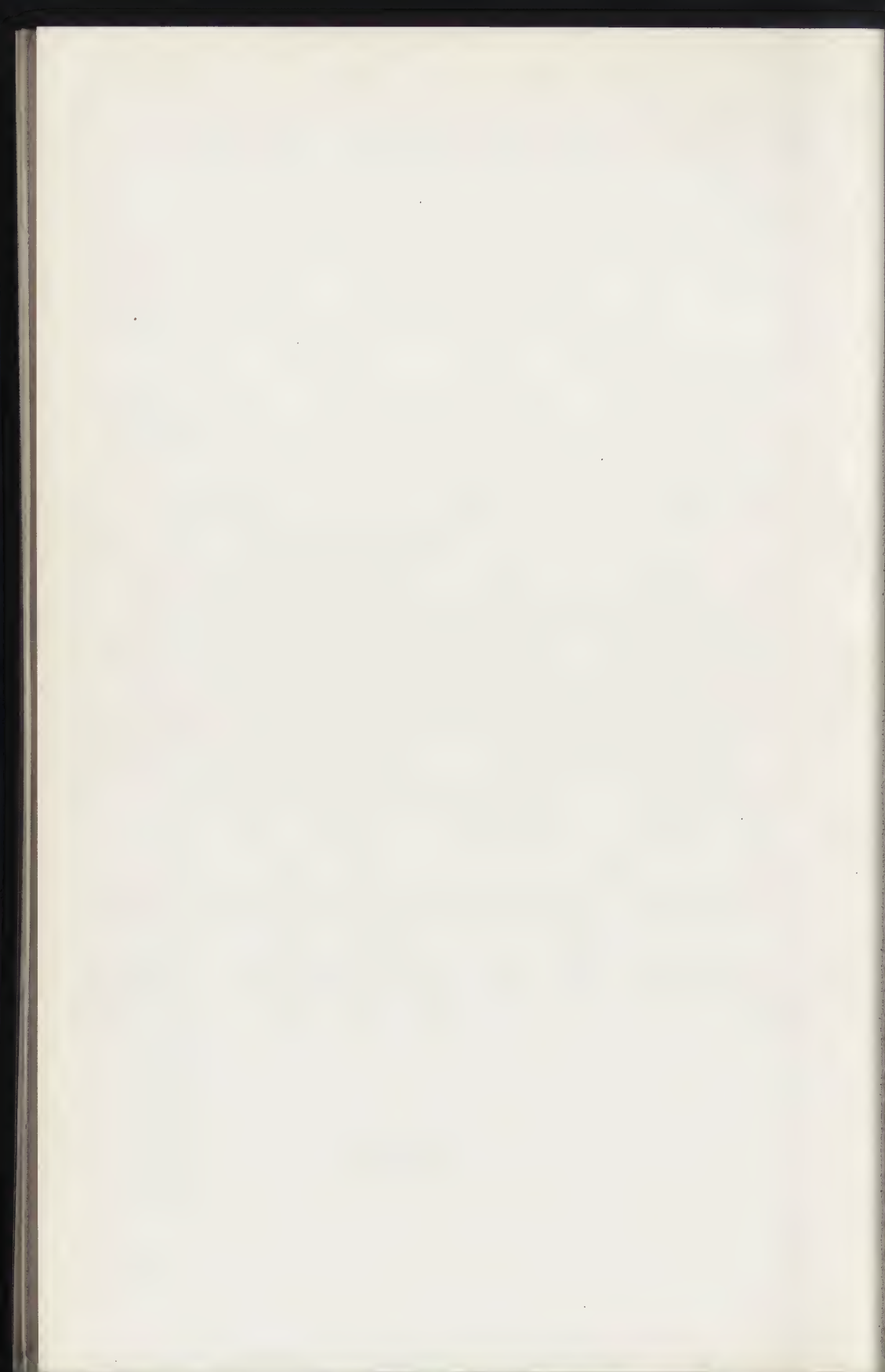
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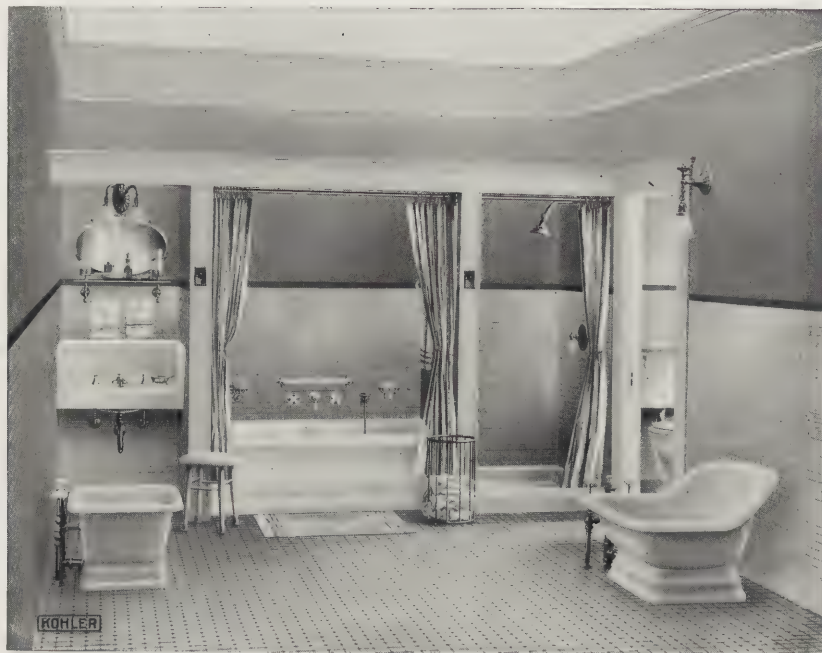
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## MODEL BATH ROOM



The above illustrates a model installation for a well appointed residence. This bath room is fully equipped in every detail. The fixtures are all porcelain enameled iron, rich in design and express refinement, and will add a charm to any mansion.

BATH — 5-foot Viceroy Recess Pattern Bath Tub with Compression Supply Fixture, Shampoo and Secret Waste. Price.....	.....
SHOWER—42-inch Square, Cataract Enameled Receptor with N. P. Strainer and Concealed Body Mixing Valve Shower, N. P. Brass Curtain Pole and White Duck Curtain. Price.....	.....
SITZ BATH—Enameled Iron Brevoort Seat Bath on Base, Compression Bell Supply with Secret Waste, and Best Quality Zinc White Exterior Finish. Price.....	.....
FOOT BATH—Enameled Iron Athearn Foot Bath on Base Compression Bell Supply with Secret Waste and Best Quality Zinc White Exterior Finish. Price.....	.....
LAVATORY—20x26 inch Enameled Iron Alco Pattern Lavatory with Combination Compression Supply Fixture, N. P. Trap and N. P. Supply Pipes. Price.....	.....
CLOSET—Tupeter Syphon Wash Down Closet Bowl with China Low Down Tank, White Seat and Cover. Price.....	.....

## MODEL BATH ROOM



This is an ideal equipment for moderate priced houses, hotels, apartments, etc. The fixtures are of the latest designs and are placed to the best advantage for a bath room of ample size, and each has plenty of space. Such a bath room is easily kept clean as there is no space under any fixtures where dust, dirt or moisture may accumulate. The bath is tiled into the wall at side and end and furnished for right or left-hand corner.

The shower and tub are equipped with concealed mixing and regulating valves.

- BATH.**—5-foot Enameled All Over One-piece Viceroy Bath, with Nickel-plated Brass Shower Head, Curtain Rod and White Duck Curtain, Concealed Supply and Secret Waste Fittings with China Handles.... .
- LAVATORY.**—Enameled Iron Columbia Lavatory, 20x24 Inches, with Compression Faucets with China Cross Handles Indexed, Nickel-plated Supply Pipes and Trap to Wall.....
- CLOSED.**—Vitreous China Syphon Jet Bowl with White Finish Seat and Cover, and Enameled Iron Tank Complete.....



**MODEL BATH ROOM**



**BATH**

5½-foot Roll Rim Corner Pattern Bath Tub, Enameled Inside and Outside, with  
N. P. Exposed Bell Supply Fittings with Model Waste. Price... ..

**LAVATORY**

22x27-inch Enamel Iron Pedestal Lavatory with Model Waste, Compression  
Basin Cocks, N. P. Trap and N. P. Supply Pipes with Stops.  
Price.....

**WATER CLOSET**

Itasca Vitreous Syphon Jet Closet Bowl with China Low Down Tank, White  
Seat and Cover. Price.....

## MODEL BATH ROOM



In planning a bath room it is desirable to install fixtures that can be kept clean and spotless with the minimum of effort. It is recognized that the china and enameled iron fixtures are easily kept clean with little effort, but the metal trimmings soon discolor and become unsightly if neglected.

The bath room illustrated above is without exposed metal, piping or screws. All valves on lavatory, bath and shower are fitted with unbreakable china handles with patented overlap concealing the ordinarily exposed nickel spindles, spuds and screws.

- BATH.—5½-foot Enameled All Over One-piece Iron Bath, built into Wall and Floor, with China Shower Head, and Concealed Compression Supply and Waste Fittings with All China Handles and Escutcheons . . .
- LAVATORY.—Vitreous China Lavatory 30x24 inches with All China Combination Supply and Waste Fitting and Trap to Wall, Completely Encased in China. . . . .
- CLOSET.—Vitreous China Noiseless Syphon Jet Bowl with Vitreous China Tank, White Cellu-Enameled Seat and Cover with Concealed Hinges and China Cased Posts and China Bolt Caps. . . . .

## SOLID PORCELAIN BATHS

TO TILE INTO RECESS



J-100

Solid Porcelain Bath to tile into Recess with Left-hand Bottom Waste Outlet, all Exposed Surfaces Glazed, fitted with Concealed Top Nozzle Supply and Waste Fitting with  $\frac{1}{2}$ -inch Compression Valves and  $\frac{2}{4}$ -inch Standing Waste with  $1\frac{1}{2}$ -inch O.D. Tail Piece, Four-arm Solid China Handles and China Escutcheons.

### DIMENSIONS

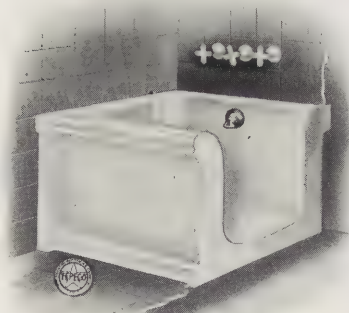
Width Outside, 29 Inches  
Height to Top of Rim, 19 Inches  
Depth Inside, 17 Inches

Length.....	feet	5	$5\frac{1}{2}$	6
Price, as described.....		...	...	...
" Tub Only, Less Fittings		...	...	...

The tub may also be furnished with supply and waste at right-hand end.

Prices on porcelain tubs are for kiln-run ware. An extra charge is made for special selection.

This bath can also be furnished with supply nozzle through back instead of end, as shown in illustration at left.

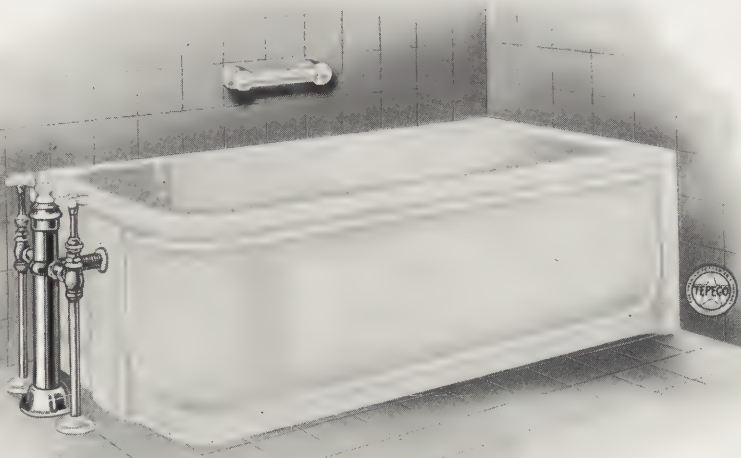


J-102



## SOLID PORCELAIN BATHS

TO TILE INTO CORNER



J-104

Solid Porcelain Bath to Tile into Right Hand Corner, with Left-hand Bottom Waste Outlet, all Exposed Surfaces Glazed, fitted with Nickel-plated Top Nozzle Supply and Waste Fitting, with  $2\frac{1}{4}$ -inch Standing Waste, China Knob and  $1\frac{1}{2}$ -inch O. D. Tail Piece, Nickel-plated Compression Valves with Four-Arm Solid China Handles and  $\frac{1}{2}$ -inch Nickel-plated Iron Pipe Size Brass Supply Pipes.

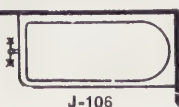
### DIMENSIONS

Width Outside, 29 inches.      Height to Top of Rim, 19 inches.  
Depth Inside, 17 inches.

Length .....	5	$5\frac{1}{2}$	6
Price, as described.....	.....	.....	.....
"    Tub only, less Fittings.....	.....	.....	.....

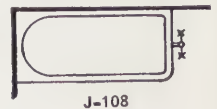
Prices quoted are for kiln-run ware. An extra charge will be made for special selection.

For Right-hand Corner



This tub can be furnished for either right or left-hand corner. In ordering specify which is wanted.

For Left-hand Corner



## SOLID PORCELAIN BATHS TO TILE INTO CORNER



**J-110**

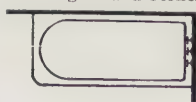
Solid Porcelain Bath to Tile into Right-hand Corner, with Right-hand Bottom Waste Outlet, all Exposed Surfaces Glazed, fitted with Concealed Top Nozzle Supply and Waste Fitting, with 1/2-inch Compression Valves and 2 1/4-inch Standing Waste with 1 1/2-inch O. D. Tail Piece, Four-arm Solid China Handles and China Escutcheons.

Width Outside, 29 inches      Height to Top of Rim, 19 inches  
 Depth Inside, 17 inches

Length.....	feet	5	5 1/2	6
Price, as described.....				
" Tub Only, Less Fittings.....				

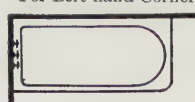
Prices on porcelain baths are for kiln-run ware. An extra charge is made for special selection.

For Right-hand Corner



**J-114**

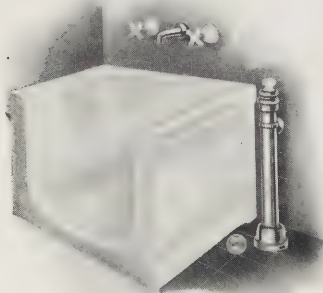
For Left-hand Corner



**J-116**

This tub can be furnished for either right or left-hand corner. In ordering, specify which is wanted.

May also be fitted with Over-rim Nozzle, 1/2-inch Concealed Compression Valves with Solid China Four-Arm Handles and China Escutcheons, 2 1/4-inch Nickel-plated Standing Waste with China Knob, Nickel-plated Escutcheon and Wall Stay.



**J-112**

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



**J-150**

Enamelled All Over Viceroy One-piece Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Wall, and  $\frac{1}{2}$  inch into Floor, fitted with Combination Built-in Top Supply, 2-inch Secret Waste, Shower, Special Side Discharge Head,  $\frac{1}{2}$ -inch Mixer and Compression Valves for Iron Pipe Supply and Riser Connections, China Handles, and Escutcheons, Nickel-plated Curtain Rail and White Duck Curtain.

Outlet in tub at right hand end.

#### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches.
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches	
Nominal Size.....feet	$4\frac{1}{2}$ 5 $5\frac{1}{2}$ 6
Length Over Rim.....inches	55      61      67      73
Price, as described.....	.....
" Tub only.....	.....

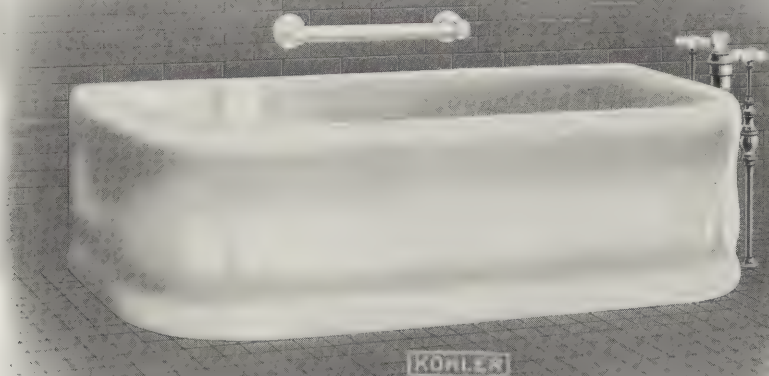
Can be furnished with outlet at opposite end and supply and waste fitting or shower as shown with any of these built-in apron baths.



## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-152

Enameled All Over Viceroy One-piece Apron Bath with Slope End, for building  $\frac{7}{8}$ -inch into Wall, and  $\frac{1}{2}$ -inch into Floor, fitted with Exposed Nickel-plated Top Supply and 2-inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves and Supply Pipes, China Handles and Knob.

Outlet in tub at right-hand end.

### DIMENSIONS

Width over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches	

Nominal Size .....	feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Length Over Rim .....	inches	55	61	67	73
Price, as described .....		...	...	...	...
“ Tub only .....		...	...	...	...

Can be furnished with outlet at opposite end and supply and waste fitting as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-154

Enameled All Over Viceroy One-piece Apron Bath with Slope End, for building  $\frac{7}{8}$ -inch into Wall and  $\frac{1}{2}$ -inch into Floor, fitted with Built-in Top Supply and 2-inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at left hand end.

#### DIMENSIONS

Width Over Rim, 30 inches.	Width Inside, 24 inches.
Width of Exposed Rim, $3\frac{1}{2}$ inches.	Depth Inside, at Outlet, 17 inches.
	Floor to Top of Rim, $17\frac{1}{2}$ inches.

Nominal Size.....	feet	4½	5	5½	6
Length Over Rim.....	inches	55	61	67	73
Price, as described.....		.....	.....	.....	.....
“ Tub only.....		.....	.....	.....	.....

Can be furnished with outlet at opposite end and supply and waste fitting as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR. NAME REG. U. S. PAT. OFF.



**J-156**

Enameled All Over Viceroy One-piece Right-hand Corner Apron Bath with Slope End for building  $\frac{3}{8}$ -inch into Walls and  $\frac{1}{2}$ -inch into Floor, fitted with Combination Built-in Over Rim Supply, 2-inch Secret Waste, Shower,  $\frac{1}{2}$ -inch Mixer and Compression Valves, for Iron Pipe Supply and Riser Connections, China Handles and Escutcheons, 26x42-inch Curtain Rail and 72x72-inch Duck Curtain.

Outlet in tub at right-hand end.

#### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches			
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches			
	Floor to Top of Rim, $17\frac{1}{2}$ inches			
Nominal Size .....	feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$
Length Over Rim .....	inches	54	60	66
Price, as described .....		...	...	...
“ Tub only .....		...	...	...

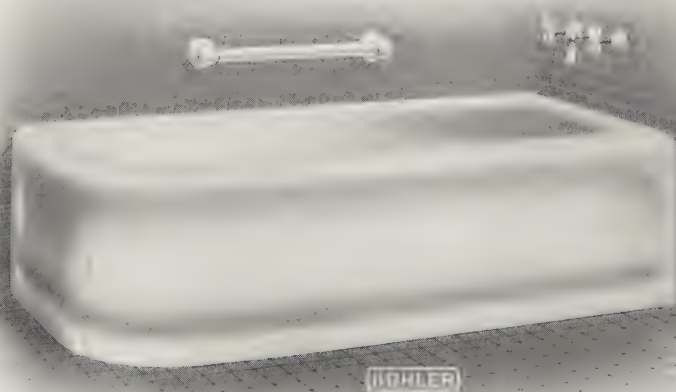
Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.



## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-158

Enameled All Over Viceroy One-piece Right-hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Built-in Top Supply and 2-inch Secret Waste Fitting in End Wall,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at right-hand end.

#### DIMENSIONS

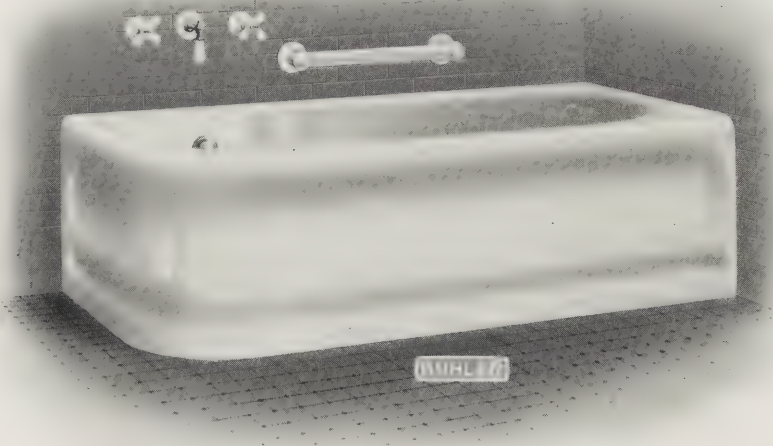
Width Over Rim, 30 inches	Width Inside, 24 inches				
Width of Exposed Rim, 3½ inches	Depth Inside, at Outlet, 17 inches				
	Floor to Top of Rim, 17½ inches				
Nominal Size . . . . .	feet	4½	5	5½	6
Length Over Rim . . . . .	inches	54	60	66	72
Price, as described . . . . .		...	...	...	...
“      Tub only . . . . .		...	...	...	...

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.

ENAMELED IRON BATHS

VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-160

Enameled All Over Viceroy One-piece Right Hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$ -inch into Walls and  $\frac{1}{2}$ -inch into Floor, fitted with Built-in Top Supply and 2-inch Secret Waste Fitting in Side Wall,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at left hand end.

DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches			
Width of Exposed Rim, 3½ inches	Depth Inside, at Outlet, 17 inches			
	Floor to Top of Rim, 17½ inches			
Nominal Size.....feet	4½	5	5½	6
Length Over Rim.....inches	54	60	66	72
Price, as described.....	....	....	....	....
“ Tub only.....	....	....	....	....

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-162

Enameled All Over Viceroy One-piece Right-hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Built-in Over Rim Supply and 2-inch Secret Waste Fitting in End Wall,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at right-hand end.

### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches	

Nominal Size.....	feet	4½	5	5½	6
Length Over Rim.....	inches	54	60	66	72
Price, as described.....		..	..	..	..
“ Tub only.....		..	..	..	..

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.



## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR, NAME REG. U. S. PAT. OFF.



J-164

Enameled All Over Viceroy One-piece Right-hand Corner Apron Bath with Slope End for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Built-in Over Rim Supply and  $1\frac{1}{2}$ -inch Connected Waste and Overflow Plug and Chain,  $\frac{1}{2}$ -inch Compression Valves and Supply Connections for Iron Pipe, China Handles and Escutcheons.

Outlet in tub at right-hand end.

### DIMENSIONS

Width Over Rim, 30 inches		Width Inside, 24 inches			
Width of Exposed Rim, $3\frac{1}{2}$ inches		Depth Inside, at Outlet, 17 inches			
		Floor to Top of Rim, $17\frac{1}{2}$ inches			
Nominal Size	feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Length Over Rim	inches	54	60	66	72
Price, as described		...	...	...	...
" Tub only		...	...	...	...

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-166

Enameled All Over Viceroy One-piece Left-hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Built-in Top Supply and 2-inch Secret Waste,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, Shower with Ball Joint Head,  $\frac{1}{2}$ -inch Concealed Valves for Iron Pipe Supply and Riser Connections, all with China Handles and Escutcheons, 26x42-inch Curtain Rail and 72x72-inch Duck Curtain.

Outlet in tub at left-hand end.

#### DIMENSIONS

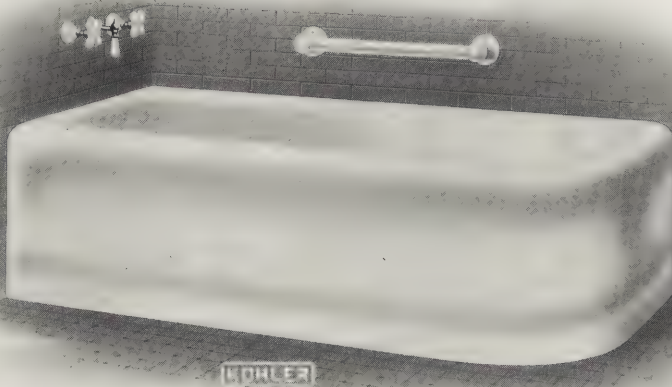
Width of Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
	Floor to Top of Rim, $17\frac{1}{2}$ inches
Nominal Size .....	feet $4\frac{1}{2}$ 5 $5\frac{1}{2}$ 6
Length Over Rim .....	inches 54    60    66    72
Price, as described .....	.....
“ Tub only .....	.....

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-168

Enameled All Over Viceroy One piece Left Hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$ -inch into Walls and  $\frac{1}{2}$ -inch into Floor, fitted with Built-in Top Supply, and 2-inch Secret Waste Fitting in End Wall,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at left-hand end.

### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches	

Nominal Size.....	feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Length Over Rim.....	inches	54	60	66	72
Price, as described.....		...	...	...	...
" Tub only.....		...	...	...	...

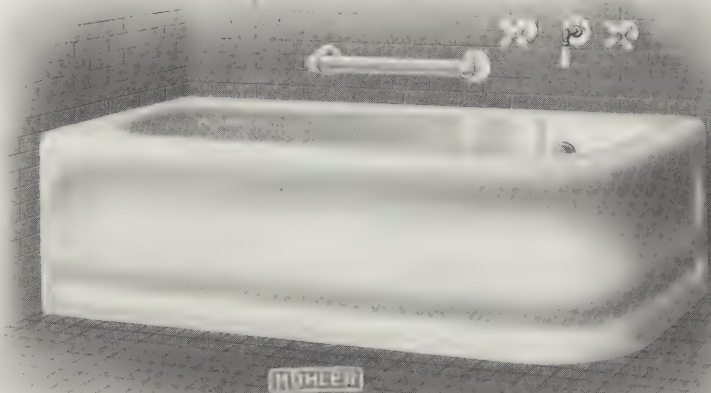
Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.



## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-170

Enameled All Over Viceroy One-piece Left-hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$ -inch into Walls and  $\frac{1}{2}$ -inch into Floor, fitted with Built-in Top Supply and 2-inch Secret Waste Fitting in Side Wall,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at right-hand end.

#### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches.	

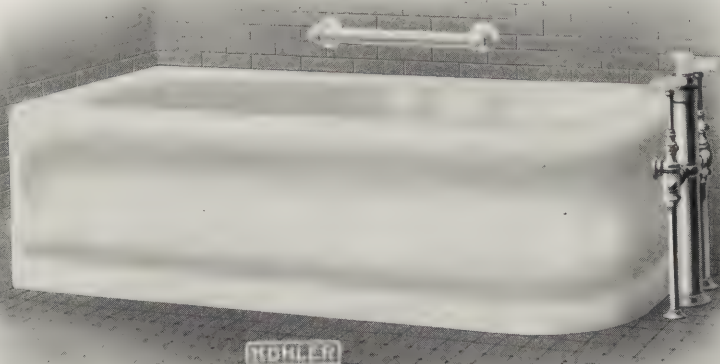
Nominal Size.....	feet	4½	5	5½	6
Length Over Rim.....	inches	54	60	66	72
Price, as described.....		...	...	...	...
“ Tub only.....		...	...	...	...

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-172

Enameled All Over Viceroy One-piece Left-hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Exposed Nickel-plated Top Supply and 2-inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves and Supply Pipes, China Handles and Knob.

Outlet in tub at right-hand end.

### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches	

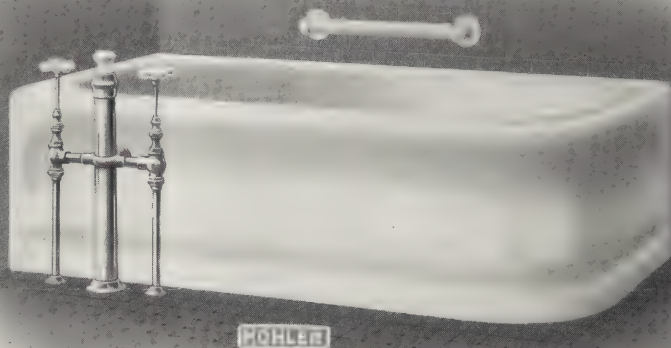
Nominal Size . . . . .	feet	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6
Length Over Rim . . . . .	inches	54	60	66	72
Price, as described . . . . .		...	...	...	...
" Tub only . . . . .		...	...	...	...

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-174

Enameled All Over Viceroy One-piece Left-hand Corner Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Exposed Nickel-plated Top Supply and 2-inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves and Supply Pipes, China Handles and Knob.

Outlet in tub at left-hand end.

### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches			
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches			
	Floor to Top of Rim, $17\frac{1}{2}$ inches			
Nominal Size.....	feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$
Length Over Rim.....	inches	54	60	66
Price, as described.....		...	...	...
" Tub only.....		...	...	...

Can be furnished for opposite corner, with outlet at either right or left hand end, and supply and waste fitting or shower as shown with any of these built-in apron baths.



## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR, NAME REG. U. S. PAT. OFF.



**J-176**

Enameled All Over Viceroy One-piece Recess Apron Bath with Slope End, for building  $\frac{7}{8}$ -inch into Walls and  $\frac{1}{2}$ -inch into Floor, fitted with Combination Built-in Over Rim Supply, 2-inch Secret Waste, Shower,  $\frac{1}{2}$ -inch Mixer and Compression Valves, for Iron Pipe Supply and Riser Connections, China Handles and Escutcheons, Curtain Rail and Duck Curtain. Outlet in tub at right-hand end.

#### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
	Floor to Top of Rim, $17\frac{1}{2}$ inches
Nominal Size . . . . .	feet $4\frac{1}{2}$ 5 $5\frac{1}{2}$ 6
Length Over Rim . . . . .	inches 54      60      66      72
Price, as described . . . . .	... ..
" Tub only . . . . .	... ..

Can be furnished with outlet at opposite end and supply and waste fitting or shower as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR, NAME REG. U. S. PAT. OFF.



J-178

Enameled All Over Viceroy One-piece Apron Recess Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Special Combination Built-in Over Rim Supply, 2-inch Secret Waste, Shower, Needle Sprays with Removable Face,  $\frac{1}{2}$ -inch Mixer and Compression Valves for Iron Pipe Supply and Riser Connections, China Handles and Escutcheons, Curtain Rail and Duck Curtain. Outlet in tub at right-hand end.

#### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches.	
Nominal Size . . . . .	feet $4\frac{1}{2}$ 5 $5\frac{1}{2}$ 6
Length Over Rim . . . . .	inches 54 60 66 72
Price, as described . . . . .	... ..
" Tub only . . . . .	... ..

Can be furnished with outlet at opposite end and supply and waste fitting or shower as shown with any of these built-in apron baths.

ENAMELED IRON BATHS

VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-180

Enameled All Over Viceroy One Piece Recess Apron Bath with Slope End, for building  $\frac{7}{8}$ -inch into Walls and  $\frac{1}{2}$ -inch into Floor, fitted with Built-in Top Supply and 2-inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons. Outlet in tub at right hand end.

DIMENSIONS

Width Over Rim, 30 inches		Width Inside, 24 inches			
Width of Exposed Rim, $3\frac{1}{2}$ inches		Depth Inside, at Outlet, 17 inches			
		Floor to Top of Rim, $17\frac{1}{2}$ inches			
Nominal Size	feet	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Length Over Rim	inches	54	60	66	72
Price, as described					
“ Tub only					

Can be furnished with outlet at opposite end and supply and waste fitting or shower as shown with any of these built-in apron baths.



## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-182

Enameled All Over Viceroy One-piece Recess Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Built-in Top Supply and 2-inch Secret Waste Fitting in Back Wall,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at right-hand end.

#### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches	

Nominal Size . . . . .	feet	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6
Length Over Rim . . . . .	inches	54	60	66	72
Price, as described . . . . .		...	...	...	...
" Tub only . . . . .		...	...	...	...

Can be furnished with outlet at opposite end and supply and waste fitting or shower as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-184

Enameled All Over Viceroys One-piece Recess Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into floor, fitted with Built-in Over Rim Supply and 2-inch Secret Waste Fitting in End Wall,  $\frac{1}{2}$ -inch Compression Valves for Iron Pipe Supply Connections, China Handles and Escutcheons.

Outlet in tub at right-hand end.

### DIMENSIONS

Width Over Rim, 30 inches	Width Inside, 24 inches
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside, at Outlet, 17 inches
Floor to Top of Rim, $17\frac{1}{2}$ inches	

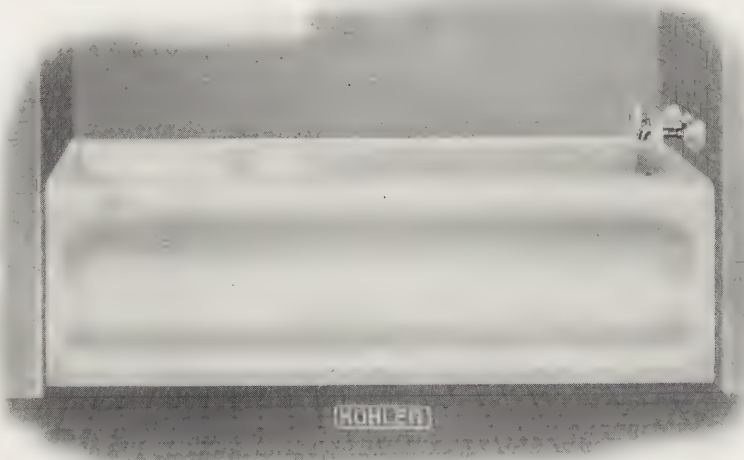
Nominal Size	feet	4 $\frac{1}{2}$	5	5 $\frac{1}{2}$	6
Length Over Rim	inches	54	60	66	72
Price, as described		...	...	...	...
" Tub only		...	...	...	...

Can be furnished with outlet at opposite end and supply and waste fitting or shower as shown with any of these built-in apron baths.

## ENAMELED IRON BATHS

### VICEROY

PATENT APPLIED FOR NAME REG. U. S. PAT. OFF.



J-186

Enameled All Over Viceroy One-piece Recess Apron Bath with Slope End, for building  $\frac{7}{8}$  inch into Walls and  $\frac{1}{2}$  inch into Floor, fitted with Built-in Over Rim Supply and  $1\frac{1}{2}$ -inch Concealed Connected Waste and Overflow Plug and Chain,  $\frac{1}{2}$ -inch Compression Valves and Supply Connections for Iron Pipe, China Handles and Escutcheons.

Outlet in tub at right-hand end.

### DIMENSIONS

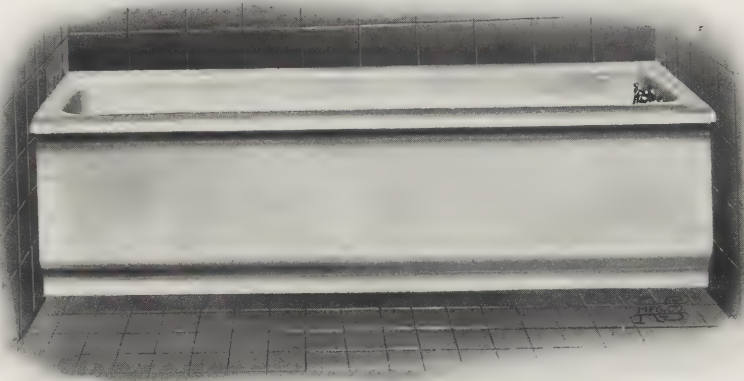
Width Over Rim, 30 inches	Width Inside, 24 inches			
Width of Exposed Rim, $3\frac{1}{2}$ inches	Depth Inside at Outlet 17 inches			
	Floor to Top of Rim, $17\frac{1}{2}$ inches			
Nominal Size.....feet	4½	5	5½	6
Length Over Rim.....inches	54	60	66	72
Price, as described.....	....	....	....	....
“ Tub only. ....	....	....	....	....

Can be furnished with outlet at opposite end and supply and waste fitting or shower as shown with any of these built-in apron baths



ENAMELED IRON BATHS

ALCO



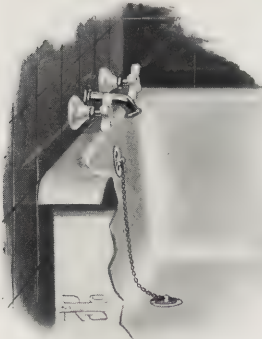
J-188

Enameled Iron One Piece Recess Bath with 3-inch Roll Rim and Right-hand End Outlet, Nickel-plated Fuller Double Bath Cock with China Handles, Concealed Connected Waste and Overflow with Chain and Rubber Stopper.

DIMENSIONS

Width Over All, 29 inches.  
Width of Front Rim, 3 inches.  
Width of Side and Back Rims, 2 inches.

Width Inside, 24 inches.  
Depth Inside, 17 inches.  
Height to Top of Rim, 17¾ inches.



J-190

Nominal Sizes.....	feet	4½	5	5½
Length Over All.....	inches	54	60	66
Price, as described, Enameled Inside .....				
“ “ “ “ All Over .....				

Also furnished with fittings at left-hand end.

J-190

Over Rim Fitting with Compression Valves, China Handles and Escutcheons can be furnished at an additional expense.

## ENAMELED IRON BATHS

### ANGLO



J-192

Enameled Iron One-piece Bath to tile in Left-hand Corner with 3-inch Roll Rim and Left-hand Outlet, fitted with Concealed Compression Valves with China Handles and Escutcheons, Nickel-plated Over-rim Spout and Concealed Connected Waste and Overflow with Chain and Rubber Stopper.

### DIMENSIONS

Width Over All, 29 inches  
 Width of Front Rim, 3 inches  
 Width of End and Side Rims, 2 inches

Width Inside, 24 inches  
 Depth Inside, 17 inches  
 Height to Top of Rim, 17 $\frac{3}{4}$  inches



J-194

Nominal Sizes.....	feet	5	5 $\frac{1}{2}$
Length, Over All.....	inches	60	66
Price, as described, Enameled Inside.....		.....	.....
“ “ “ “ All Over....		.....	.....

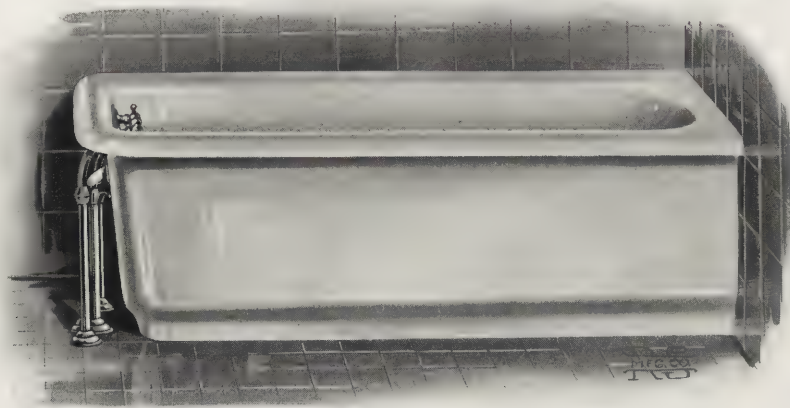
Also furnished to tile in right-hand corner.

J-194

Nickel-plated Fuller Bath Cock with China Handles and Concealed Model Waste with China Handle and Escutcheon can be furnished at an additional expense.

## ENAMELED IRON BATHS

### ANGLO



J-196

Enameled Iron One-piece Bath to tile in Right-hand Corner, with 3-inch Roll Rim and Left-hand End Outlet, Nickel-plated Fuller Double Bath Cock with China Handles, Nickel-plated Iron Pipe Size Offset Supply Pipes and Nickel-plated Connected Waste and Overflow with Chain and Rubber Stopper.

### DIMENSIONS

Width Over All, 29 inches.	Width Inside, 24 inches.
Width of Front Rim, 3 inches.	Depth Inside, 17 inches.
Width of End and Back Rims, 2 inches.	Height to Top of Rim, 17¾ inches.

Nominal Sizes.....	feet	4½	5	5½
Length Over All.....	inches	54	60	66
Price, as described, Enameled Inside.....				
“ “ “ “ All Over.....				

Also furnished to tile in left-hand corner.



J-198

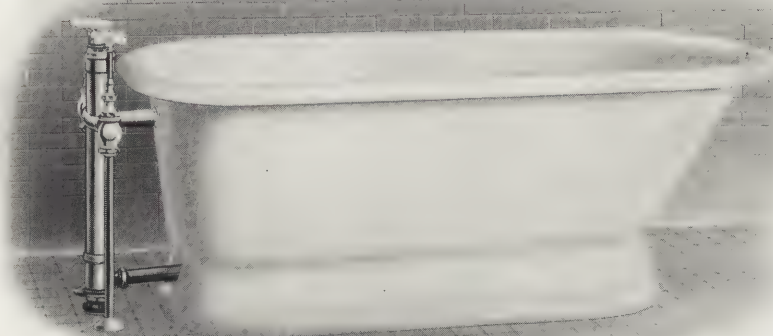
J-198

Nickel-plated Model Waste with China Knob can be furnished instead of Plug and Chain Waste at an additional expense.



## ENAMELED IRON BATHS

### BARONESS



J-200

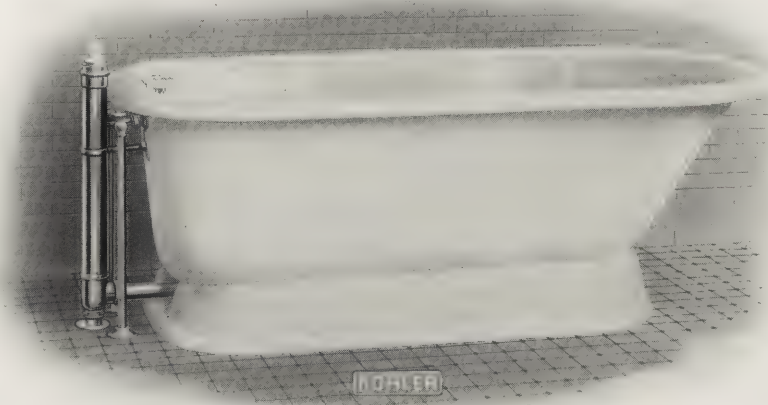
Enameled Iron Baroness Bath on Painted Base, fitted with Nickel-plated Brass Top Supply and 2-inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves and Supply Pipes, All China Indexed Handles and Knob. Base can be furnished enameled.

#### DIMENSIONS

Width Over Rim, 30 inches	Depth Inside, 17 inches				
Width of Rim, 3 inches	Floor to Top of Rim, 22½ inches				
Nominal Size . . . . .feet	4	4½	5	5½	6
Length Over Rim . . . . .inches	48	54	60	66	72
Price, as described . . . . .	....	....	....	....	....
“ Tub only . . . . .	....	....	....	....	....
If with Enameled Base, add . . . . .	....	....	....	....	....

## ENAMELED IRON BATHS

### BARONESS



J-202

Enameled Iron Baroness Bath on Painted Base fitted with Nickel-plated Brass No. 3 Compression Double Bath Cock with Indexed China Handles,  $\frac{1}{2}$ -inch Nickel-plated Offset Supply Pipes, and 2-inch Nickel-plated Secret Waste with Indexed China Knob.

Base can be furnished enameled.

### DIMENSIONS

Width Over Rim, 30 inches  
Width of Rim, 3 inches

Depth Inside, 17 inches  
Floor to Top of Rim,  $22\frac{1}{2}$  inches

Nominal Size.....feet	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Length Over Rim.....inches	48	54	60	66	72
Price, as described.....	....	....	....	....	....
“ Tub only.....	....	....	....	....	....
If with Enameled Base, add.....	....	....	....	....	....

## ENAMELED IRON BATHS

### BARONESS



J-204

Enameled Iron Baroness Bath on Painted Base, fitted with Nickel-plated Brass Compression Double Bath Cock with Indexed China Handles,  $\frac{1}{2}$ -inch Nickel-plated Offset Supply Pipes and  $1\frac{1}{2}$ -inch Nickel-plated Connected Waste and Overflow.

Base can be furnished enameled.

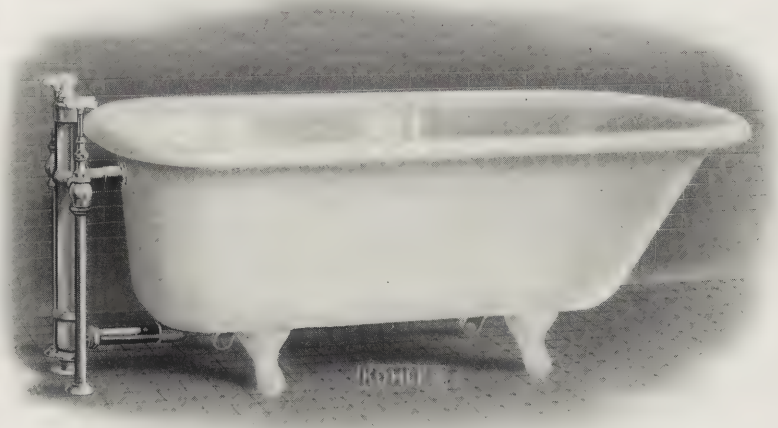
#### DIMENSIONS

Width Over Rim, 30 inches	Depth Inside, 17 inches				
Width of Rim, 3 inches	Floor to Top of Rim, $22\frac{1}{2}$ inches				
Nominal Sizes .....	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Length Over Rim .....	48	54	60	66	72
Price, as described .....	....	....	....	....	....
"    Tub Only .....	....	....	....	....	....
If with Enameled Base, add. ....	....	....	....	....	....



ENAMELED IRON BATHS

COLONNA



J-206

Enameled Iron Colonna Bath on Legs, fitted with Nickel-plated Brass Top Supply and 2-inch Secret Waste Fitting, 1/2-inch Compression Valves and Nickel-plated Supply Pipes, Indexed China Handles and Knob.

DIMENSIONS

Width Over Rim, 30 inches	Depth Inside, 17 inches				
Width of Roll Rim, 3 inches	Floor to Top of Rim, 22½ inches				
Nominal Size.....feet	4	4½	5	5½	6
Length Over Rim.....inches	48	54	60	66	72
Price, as described.....	....	....	....	....	....
“ Tub only.....	....	....	....	....	....

## ENAMELED IRON BATHS

## COLONNA



J-208

Enameled Iron Colonna Bath on Legs, fitted with Nickel-plated Brass No. 3 Compression Double Bath Cock with Indexed China Handles,  $\frac{1}{2}$ -inch Nickel-plated Offset Supply Pipes and 2-inch Nickel-plated Secret Waste with Indexed China Knob.

## DIMENSIONS

Width over Rim, 30 inches.  
Width of Roll Rim, 3 inches.

Depth Inside, 17 inches.  
Floor to Top of Rim,  $22\frac{1}{2}$  inches.

Nominal Sizes.....feet	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Length Over Rim.....inches	48	54	60	66	72
Price, as described.....	.....	.....	.....	.....	.....
“ Tub only.....	.....	.....	.....	.....	.....

## ENAMELED IRON BATHS

### COLONNA



J-210

Enameled Iron Colonna Bath on Legs, fitted with Nickel-plated Brass No. 3 Compression Double Bath Cock with Indexed China Handles, 1/2-inch Nickel-plated Offset Supply Pipes, and 1 1/2-inch Nickel-plated Connected Waste and Overflow.

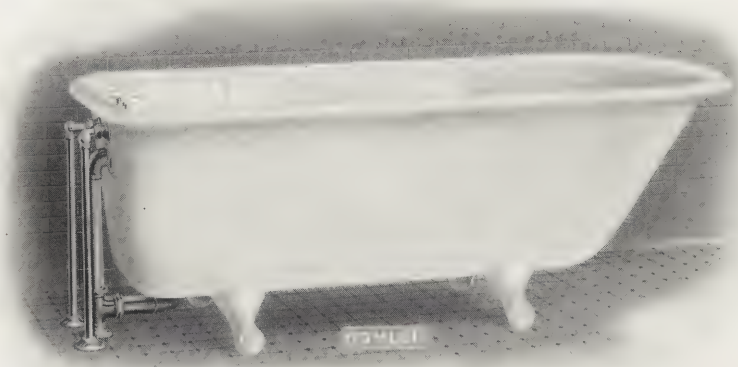
**DIMENSIONS**

Width over Rim, 30 inches.		Depth Inside, 17 inches.				
Width of Roll Rim, 3 inches.		Floor to Top of Rim, 22 1/2 inches.				
Nominal Sizes.....feet	4	4 1/2	5	5 1/2	6	
Length Over Rim.....inches	48	54	60	66	72	
Price, as described.....	.....	.....	.....	.....	.....	
“ Tub only.....	.....	.....	.....	.....	.....	



## ENAMELED IRON BATHS

### RIVAL



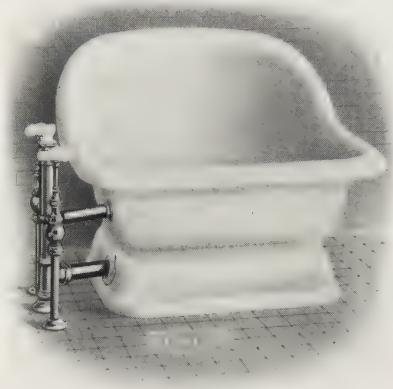
J-212

Enameled Iron Rival Bath on Legs, fitted with Nickel-plated Brass No. 3 Compression Double Bath Cock with Indexed China Handles,  $\frac{1}{2}$ -inch Nickel-plated Offset Supply Pipes and  $1\frac{1}{2}$ -inch Nickel-plated Connected Waste and Overflow.

### DIMENSIONS

Width over Rim, 26 inches		Depth Inside, $17\frac{5}{8}$ inches			
Width of Roll Rim, 2 inches		Height to Top of Rim, 23 inches			
Nominal Sizes.....	feet	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$
Length Over Rim.....	inches	48	54	60	67
Price, as described.....		....	....	....	....
"    Tub only.....		....	....	....	....

## ENAMELED IRON SITZ AND FOOT BATHS



**J-240**

Front to Back of Rim,  $32\frac{1}{2}$  inches  
Width over Rim,  $30\frac{1}{4}$  inches  
Width of Rim, 3 inches

Floor to Top of Rim at Front, 15 inches  
Floor to Top of Rim at Back,  $23\frac{1}{2}$  inches  
Depth Inside at Outlet,  $10\frac{1}{2}$  inches

Price, as described.....  
If with Enameled Base, add.....

### SITZ BATHS

Enameled Iron Brevoort Sitz Bath on Painted Base, fitted with Nickel-plated Brass Bell Supply and  $1\frac{5}{8}$ -inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves and Supply Pipes, Indexed China Handles and Knob.

Can be furnished with enameled base if desired.

### FOOT BATHS

Enameled Iron Athearn Foot Bath on Painted Base, fitted with Nickel-plated Brass Bell Supply and  $1\frac{5}{8}$ -inch Secret Waste Fitting,  $\frac{1}{2}$ -inch Compression Valves and Supply Pipes, Indexed China Handles and Knob.

Can be furnished with Enameled Base if desired.



**J-242**

Length over Rim,  $24\frac{1}{4}$  inches  
Width over Rim,  $21\frac{1}{4}$  inches  
Depth Inside, at

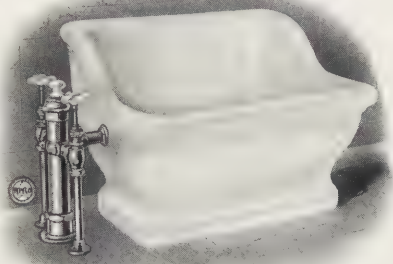
Floor to Top of Rim,  $15\frac{3}{4}$  inches  
Width of Rim,  $2\frac{1}{4}$  inches  
Outlet,  $11\frac{1}{2}$  inches

Price, as described.....  
If with Enameled Base, add.....

## SOLID PORCELAIN SITZ AND FOOT BATHS

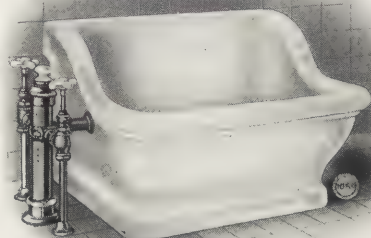
### SITZ BATHS

On Base



J-244

On Base to Tile in Wall



J-246

#### ON BASE

All Roll Rim Solid Porcelain Sitz Bath with Bottom Outlet, fitted with Nickel-plated Brass Top Bell Supply and 2 1/4-inch Standing Waste Fitting with China Knob and 1 1/2-inch O. D. Tail Piece, Compression Valves with Four-arm Solid China Handles and Nickel-plated Brass 1/2-inch Iron Pipe Supply Pipes.

Length Outside 30 inches  
 Width Outside 26 1/2 inches

Height at Back 21 inches  
 Height at Front 14 1/2 inches

Price, as described. ....

#### ON BASE TO TILE IN WALL

Built-in Solid Porcelain Sitz Bath, with Bottom Outlet fitted with Nickel-plated Brass Top Bell Supply and 2 1/4-inch Standing Waste with China Knob and 1 1/2-inch O. D. Tail Piece, Compression Valves with Four-arm Solid China Handles and Nickel-plated Brass 1/2-inch Iron Pipe Supply Pipes.

Length Outside 30 inches  
 Width Outside 26 inches

Height at Back 21 inches  
 Height at Front 14 1/2 inches

Price, as described. ....

#### FOOT BATHS

Solid Porcelain All Roll Rim Foot Bath with Bottom Outlet, fitted with Nickel-plated Brass Top Bell Supply and 2 1/4-inch Standing Waste Fitting with China Knob and 1 1/2-inch O. D. Tail Piece, Compression Valves with Four-arm Solid China Handles and Nickel-plated Brass 1/2-inch Iron Pipe Supply Pipes.

Length Outside 26 inches      Width Outside 21 inches  
 Height at top of Rim 14 inches

Price, as described. ....



J-248

Prices on porcelain sitz and foot baths are quoted for kiln-run ware. Extra charge is made for special selection.



## BABY BATHS AND BIDETS



J-250

### PORCELAIN BABY BATH ON PEDESTAL

Porcelain Baby Bath on Porcelain Pedestal, Glazed Inside and Outside, Nickel-plated Compression Top Supply and Waste Fitting with China Indexes and China Knob, 1/2-inch Nickel-plated Supply Pipes and Trap.

Length 36 inches	Height 31 inches
Width 24 inches	Depth 13 inches

Price, as described . . . . .  
 " without Fittings . . . . .

Prices on Porcelain Baths are for kiln run ware. An extra charge will be made for special selection.

### BIDETS

Vitreous China Flushing Rim Pedestal Bidet with Douche, Fixture Shelf and Integral Supply Nozzle, fitted with Nickel-plated 1 1/4-inch Pop-up Waste with China Knob, 1 1/4-inch O. D. Tail Piece, Hot and Cold Water Compression Supply Valves with Four-arm Solid China Handles and Escutcheons, Transfer Valve with China Lever Handle and Escutcheon and Nickel-plated Supply Pipes to Floor.

Length Over All 25 3/4 inches  
 Height 15 inches  
 Width 15 inches  
 Opening of Bowl 15 1/2 inches

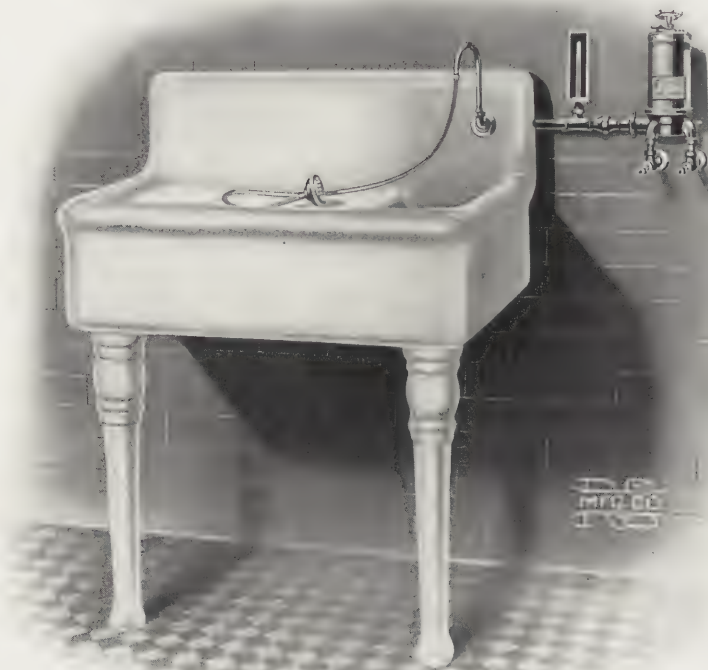


J-252

Price, as described . . . . .

The transfer valve controls the supply of hot or cold water to the flushing rim or center douche.

## BABY BATHS



J-254

Porcelain Roll Rim Baby Bath with Smooth Drain Shelf and Small Sink Depression at Right Hand End, Porcelain Legs and Wall Supports, Nickel-plated Brass Leonard Anti-scalding Mixing Valve with Nickel-plated Supply Pipes to Wall with Stops, Nickel-plated Supply Pipe to Sink with Thermometer, Gooseneck and Shampoo, 1½ inch Nickel-plated Trap.

Length Over All, 42 inches    Width Over All, 30 inches    Height of Back, 9 inches  
Distance from Floor to Top of Sink, 35 inches

Price, as described.....

Prices on porcelain baths are for kiln run ware. An extra charge will be made for special selection.

The anti-scalding mixing valve maintains the temperature desired, regardless of variation in pressure or temperature of the water supplied to it, and will shut off automatically if these variations are too great, thereby removing entirely the possibility of their scalding or chilling.

## BABY BATHS



J-256

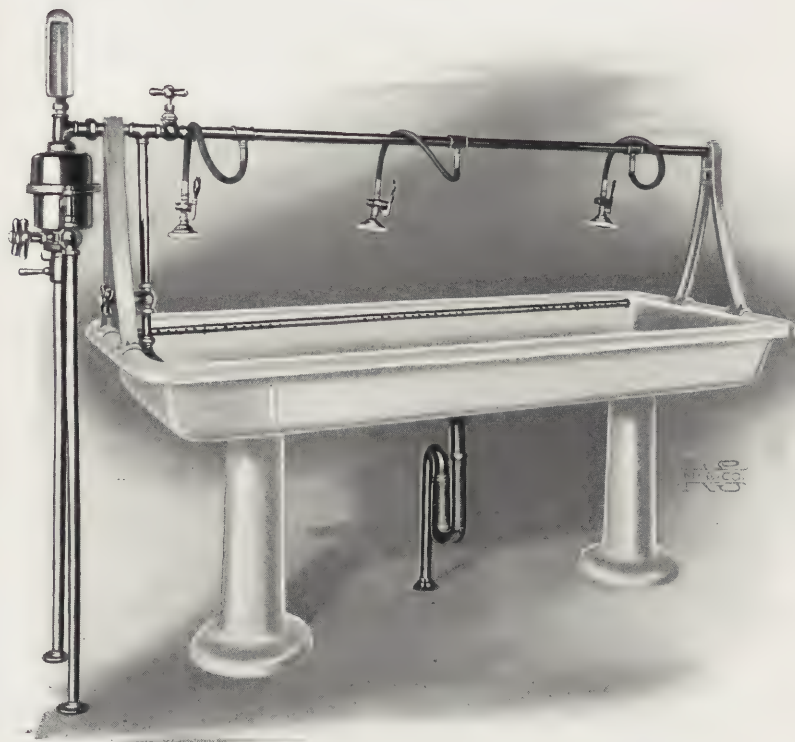
Porcelain Roll Rim Baby Bath with Smooth Drain Shelf and Small Sink Depression at Right Hand End, Supported on Built-in Wall and Floor Carrier, 1½-inch Nickel-plated Trap; 15x40-inch Nickel-plated Copper Gravity Supply Tank, Tinned inside, Supported on Nickel-plated Brass Brackets with Top Brace to Wall furnished with Overflow, Angle Pattern Thermometer and Water Gauge Nickel-plated Leonard Anti scalding Mixing Valve with Nickel-plated Supply Pipes to Wall with Stops, Nickel-plated Supply to Tank, Nickel-plated Supply Pipe with Shampoo.

Price, as described .....

Prices on porcelain sinks are based on kiln run ware. An extra charge will be made for special selection.



## BABY BATHS



J-258

Enameled Inside Iron Roll Rim Receptor with Zinc White Finish Outside, on Enameled Iron Pedestals, fitted with Perforated Nickel-plated Brass Piping on Both Sides of Receptor, Three Nickel-plated Self-closing Showers, Nickel-plated Brass Supply Pipes to Floor and Over Top of Receptor, Thermostatically Controlled Mixing Valve with Thermometer and Extra Heavy Controlling Valves with Special Handles, Nickel-plated S Trap.

### DIMENSIONS

Length 60 inches    Width 30 inches    Depth 8 inches

Price, as described.....

Can furnish above in 72, 84 and 96-inch lengths.

The thermostatic valve maintains the temperature desired, regardless of variation in pressure or temperature of the water supplied to it, and will shut off automatically if these variations are too great, thereby removing entirely the possibility of either scalding or chilling.

## HOSPITAL BATHS



J-260

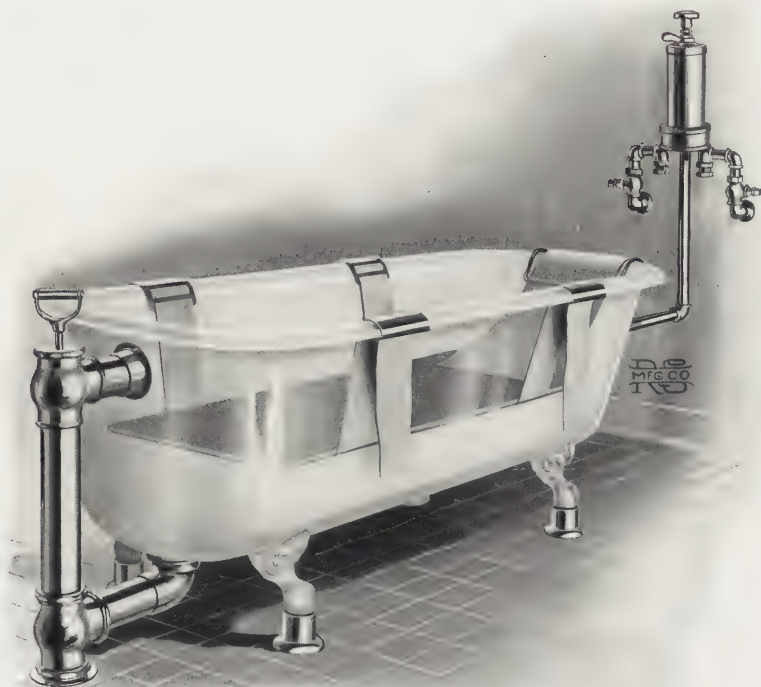
Enameled Iron "Neva" Bath, 3-inch Roll Rim, Special Model Waste with 2-inch Outlet, Mixing Valve Supply with Two-way Cock and Shampoo, Nickel-plated Supply Pipes with Loose Key Stops.

Tub furnished with Model Exterior Finish.

Can be furnished in 5½ and 6-foot lengths, also with the Leonard Anti-scalding Mixing Valve.

Price on application.

## CONTINUOUS FLOW BATHS



J-262

Enameled Iron Bath 3-inch Roll Rim with Zinc White Exterior Finish, 3-inch Combination Model Waste and Overflow, B-10 Nickel-plated Brass Leonard Thermostatic Mixing Valve with Stop Valves and Elbow Supply to Wall, Nickel-plated Supply Pipe to Tub, Canvas Cradle with Nickel-plated Brass Frame.

Price, as described.....

This tub furnished in lengths, 6 foot 2 inches and 6 foot 6 inches. State which is desired in ordering. It can also be furnished in solid porcelain 6 foot, 6½ foot and 7 foot lengths.

The Leonard Valve maintains the temperature desired regardless of the variation in pressure or temperature of water supplied to it and will shut off automatically if these variations are too great, thereby removing entirely the possibility of scalding or chilling.

Rubber covering sheet with puckering cord furnished for the above tub when desired.

## EMERGENCY BATHS



J-264

Solid Porcelain Emergency Bath Glazed Inside and Outside, Supported on two Solid Porcelain Pedestals, with Nickel-plated Model Waste and Trap to Wall, Leonard Anti-scalding Mixing Valve with Loose Key Stop Valves and Thermometer with Hose and Sprinkler.

Length Over All, 6 Feet

Width Over All, 30 Inches

Height from Floor to Top of Rim, 34 Inches

Depth Inside, 8 Inches

Price, as described .....

Prices on porcelain baths are for kiln run ware. Extra charge is made for special selection.



## ELECTRIC BATHS



J-266

Solid Porcelain Bath, Glazed Inside and Outside on Glazed Porcelain Legs, Nickel-plated Compression Combination Hot and Cold Supply Fixture with Swinging Spout, Waste Outlet with Quick-opening Valve, Polished and Nickel plated, Four Removable Electrodes with Water Proof Conducting Cords, Polysine Generator for Alternating or Direct Current, Rotor, Rheostat Dial Selector, with Mohogany Cabinet as shown. All currents earth free. Will administer sinusoidal in various modalities, also galvanic and combined galvanic and sinusoidal currents.

Length .....	feet	5½	6	6½	7
Price, as described.....		.....	.....	.....	.....

Above tub can also be furnished with Nauheim bath attachment when necessary.

## ELECTRIC LIGHT BATH CABINETS



**J-268**

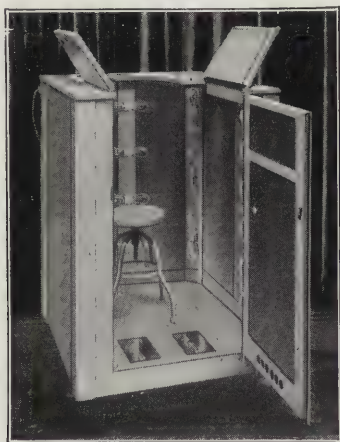
White Enamel Steel Cabinet, Ruby-glow Foot Warmers, High Efficiency White Enamel Reflecting Panels, Patent Adjustable Collarette, White Enamel Adjustable Steel Stool and 48, 60 watt carbon lamps arranged in four circuits.

Control Switches can be placed on inside of cabinet, if desired.

Shipping weight, 640 pounds.

Width, 41 inches; depth, 42 inches; height 50 inches; width of door, 22½ inches.

Price, as described.....each **500.00**



**J-270**

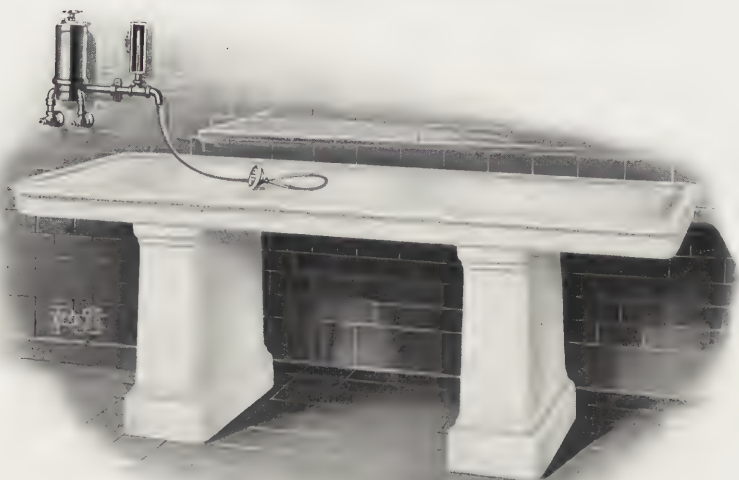
White Enamel Steel Cabinet, Ruby-glow Foot Warmers, High Efficiency White Enamel Reflecting Panels, White Enamel Steel Stool and 32, 60 watt carbon lamps.

Shipping weight, 350 pounds.

Width, 34¼ inches; depth, 38¾ inches; height 50 inches; width of door, 22½ inches.

Price, as described.....each **350.00**

## SHAMPOO TABLES

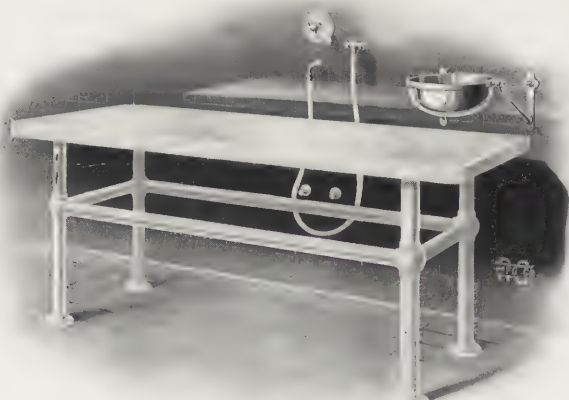


**J-272**

Porcelain Shampoo Table Roll Rim on all Sides, supported on Two Porcelain Pedestals with N. P. Leonard Thermostatic Mixing Valve, L. K. Stops, Thermometer and Shampoo.

Length Over All, 72 inches      Width Over All, 24 inches      Height of Pedestals, 28 inches  
Distance from Floor to Top of Rim, 32 inches

Price, as described .....



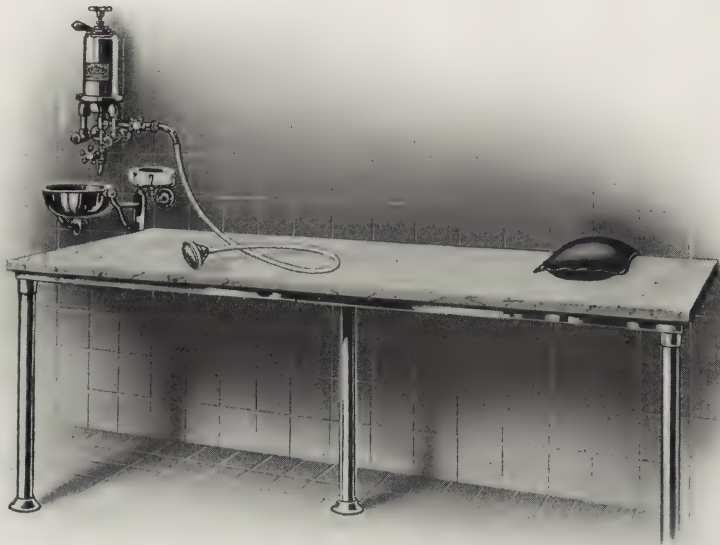
**J-274**

Italian Marble Slab 78 inches long, 30 inches wide and 2 inches thick, White Enamel Wrought Pipe Frame, Concealed Pattern Mixing Valve and L. K. Stops, Shampoo and Tilting Basin.

Price, as described .....

Table usually furnished 30 inches to top, but this can be varied to suit requirements.

SHAMPOO TABLE



J-276

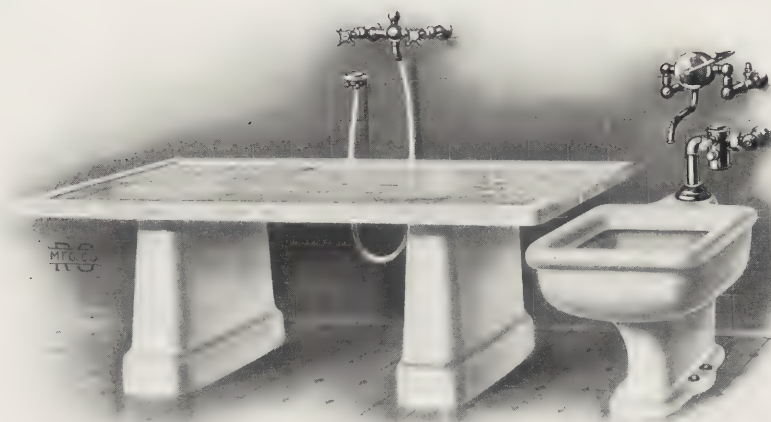
1½-inch thick Italian Marble Slab, 78 inches long, 24 inches wide, Nickel-plated Brass Frame, Nickel-plated Tilting Basin, Soap Dish, Pneumatic Rubber Pillow, Model B-10 Nickel-plated Brass Leonard Anti-scalding Mixing Valve with Stop Valves, Shampoo, and Spout for Tilting Basin.

Price.....

The Leonard Valve maintains the temperature desired, regardless of variation in pressure or temperature of the water supplied to it, and will shut off automatically if these variations are too great, thereby removing entirely the possibility of scalding or chilling.



## MORGUE COMBINATION



J-278

Italian Marble Top, 2 inches thick, Deeply Countersunk and Grooved, with Two Superior Porcelain Pedestals, Shampoo Fixture, Syphon Jet Flushing Rim Slop Sink with Cast Brass Floor Flange, Asbestos Gasket and Bolts, Nickel-plated Brass Flush Valve with Stop, Elbow-action Mixing Valve.

Length of Table, 78 inches.

Width, 30 inches.

Height, 30 inches.

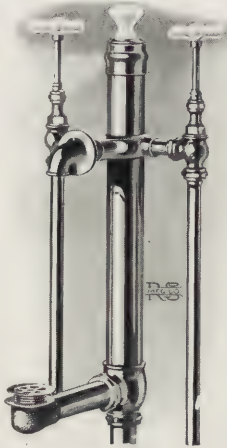
Slop Sink, 21x21 inches.

Price, Complete, as described . . . . .

Hot and cold supply to slop sink, also flush valve supply, can be arranged for foot operation when necessary.

## BATH FITTINGS

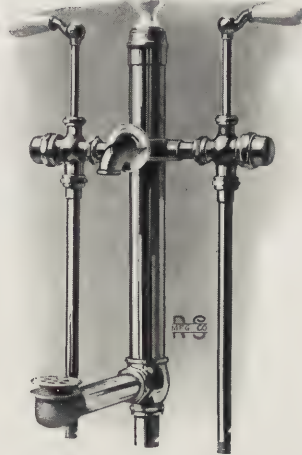
### COMPRESSION BATH FITTINGS



J-296

Price, Nickel-plated Compression Bath Supply Fitting with Top Nozzle Supply and Standing Waste, Four-Arm China Handles and China Waste Knob.....each

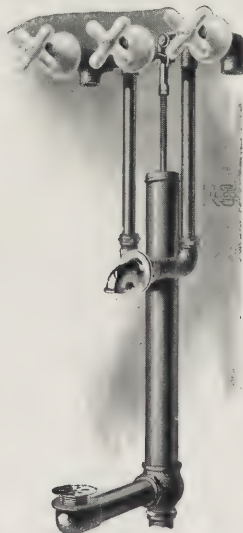
### FULLER BATH FITTINGS



J-298

Price, Nickel-plated Fuller Bath Supply Fitting with Top Nozzle Supply and Standing Waste, China Tipped Handles and China Waste Knob.....each

### CONCEALED COMPRESSION BATH FITTINGS



J-300

Price, Concealed Compression Bath Fitting with Top Nozzle Supply and Standing Waste and China Escutheons.....each

## BATH FITTINGS

### OVER RIM BATH SUPPLY FITTINGS

**J-302**

Over Rim Bath Supply Fitting with Nickel-plated Cast Brass Spout, Concealed Compression Valves with China Handles and China Escutcheons.

Price, as described.....

### OVER RIM BATH SUPPLY AND WASTE FITTINGS

**J-304**

Over Rim Bath Supply Fitting with Nickel-plated Cast Brass Spout, Concealed Compression Valves with China Handles and China Escutcheons, and Concealed Model Waste with China Handle and Escutcheon.

Price, as described.....

## BATH FITTINGS

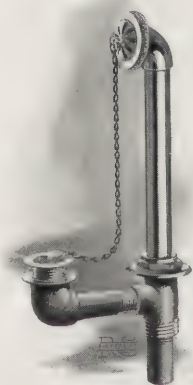


J-306



J-308

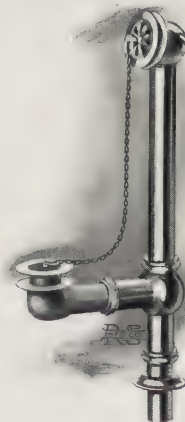
Price, J-306 Nickel-plated Model Bath Waste with China Knob.....each .....  
 " J-308 " " " " " " " and Nickel-plated Cast Brass Floor Flange with Special Rough Brass Tee Fitting to set  
 in Floor, Outlet threaded Inside and Outside for Iron Pipe .....each .....  
 The only slip joint of this combination is at top of special tee fitting.



J-310



J-312



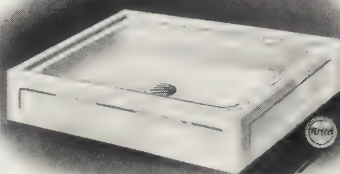
J-314

Price, J-310 Nickel-plated Heavy Brass Exposed Connected Waste and  
 Overflow, Nickel-plated Cast Brass Floor Flange with Rough Brass Special  
 Tee Fitting to set in Floor, threaded Inside and Outside for Iron Pipe..each .....  
 The only slip joint of this combination is at top of tee fitting.  
 Price, J-312 Extra Heavy Brass Concealed Connected Waste and Overflow with  
 Strainer and Overflow Polished and Nickel-plated, Outlet of Tee Fitting  
 furnished with Male and Female Iron Pipe Threads .....each .....  
 Price, J-314 Nickel-plated Brass Exposed Connected Waste and Overflow  
 made of No. 17 Gauge Tubing.....each .....



## SHOWER RECEPTORS

### PORCELAIN



J-316

Porcelain Universal Shower Receptor, Glazed on All Sides, with Nickel-plated Brass Strainer.

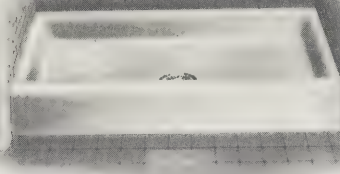
Depth Outside, 7 inches

Size, Outside.....inches	36x36	42x42
Price, as described.....	.....	.....

A tiling ledge is carried around all four sides of the rim which makes possible a water-tight joint between the tile and receptor. May be used in a recess, corner or any place where a receptor is required.

Prices on porcelain receptors are for kiln run ware. Extra charge will be made for special selection.

### ENAMELED IRON



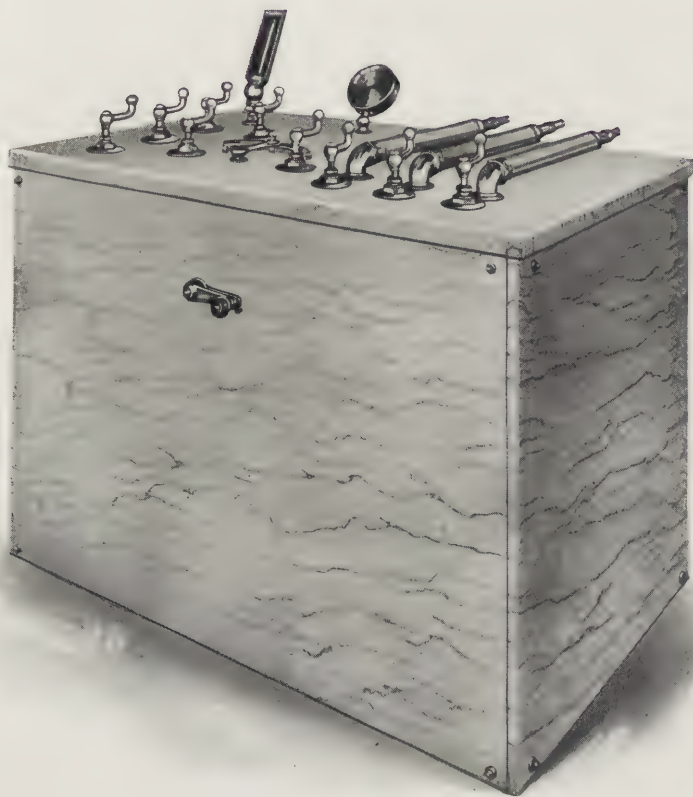
J-318

Enameled Iron Recess Shower Receptor to build  $1\frac{1}{4}$  inches into Walls and  $\frac{1}{2}$  inch into Floor with Apron, with Center Outlet and Nickel-plated Brass Strainer.

Size Over Rim 36x36 inches	Depth Inside $3\frac{3}{4}$ inches	Apron 5 inches
Size Over Rim 42x42 inches	Depth Inside $3\frac{3}{4}$ inches	Apron 5 inches

Size .....inches	36x36	42x42
Price, as described.....	.....	.....

## CONTROLLING TABLE



J-320

Controlling Table of Tennessee or Italian Marble, fitted with Mixing Valve, Main Hot and Cold Valves, Valves controlling Water to Combination Needle and Shower Bath, Hose Nozzles with Valves for Tempered Water, Ice Water and Steam, Temperature and Pressure Gauges, Pressure Regulating and Try-out Valves.

Valves are so constructed that repairs may be made without removing valve bodies.

Construction of each table varies with the requirements of each institution, therefore they are made to order only and price will be quoted on receipt of specifications.

## DOUCHE ROOM



J-322

Above illustration shows interior view of Douche Room with Controlling Table of Tennessee Marble, Galvanized Needle Bath, Bidet and Shampoo.

Operator controls water to needle shower and bidet from marble table.

Tables can be furnished to control water to seat bath and bath tub if desired.

The above illustration is from a retouched photograph taken in one of the hydro-therapeutic institutions equipped with our apparatus.

Prices quoted on application.

## DOUCHE ROOM



J-324

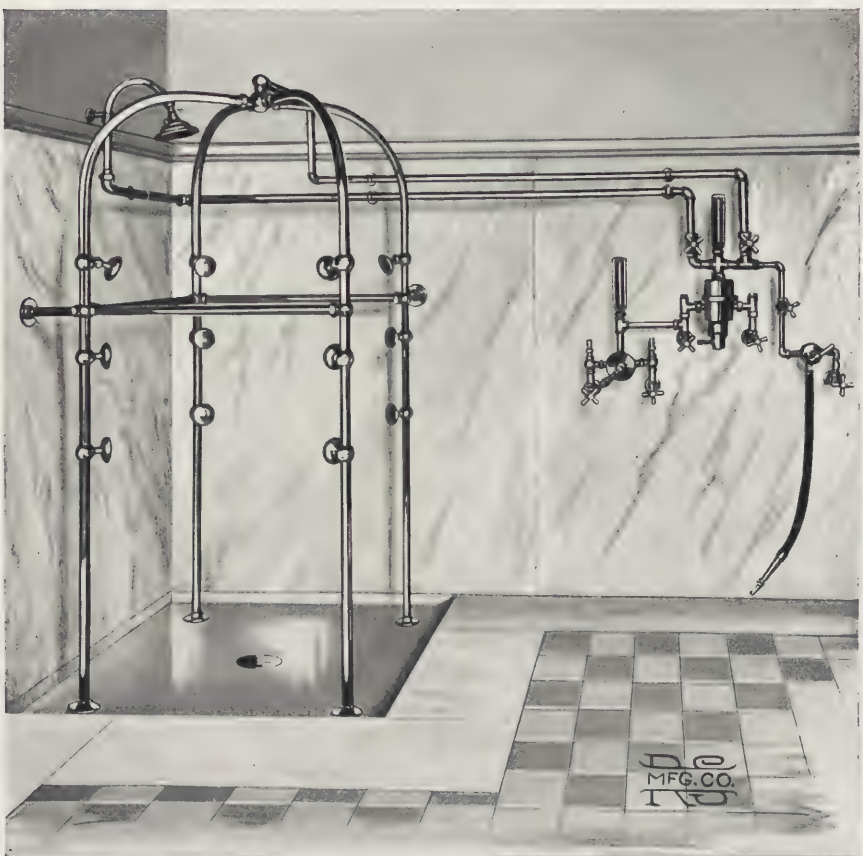
This illustrates Douche Room recently furnished with R & S equipment.

All water used in this room passes through No. 120 Leonard Thermostatic Mixing Valve.

The operator controls water at table to needle and shower baths, bidet, seat and immersion baths.



**NEEDLE AND SHOWER BATHS**



**J-326**

Nickel-plated Brass Combination Needle and Shower Bath with 12 3 $\frac{5}{8}$ -inch Cast Brass Removable Face Spray Heads (Top Ones with Ball Joints), 6 $\frac{1}{2}$ -inch Shower Head and Powers Anti-scalding Mixing Valve, Nickel-plated Brass Steam Mixing Valve, Hot and Cold Water Mixing Valve with Hose and Thermometers.

Price, as described.....

The above combination is so valved as to use hot water from the storage system and is also furnished with live steam connection so as to instantly create hot water in case hot supply in tank is exhausted. The Powers Mixing valve maintains the temperature desired regardless of variation in pressure or temperature of the water supplied to it and will shut off automatically if these variations are too great, thereby removing the possibility of scalding or chilling.

Needle showers should not be used where water pressure is less than 20 pounds nor with small diameter supply pipes.

## GALVANIZED IRON NEEDLE BATHS



J-328

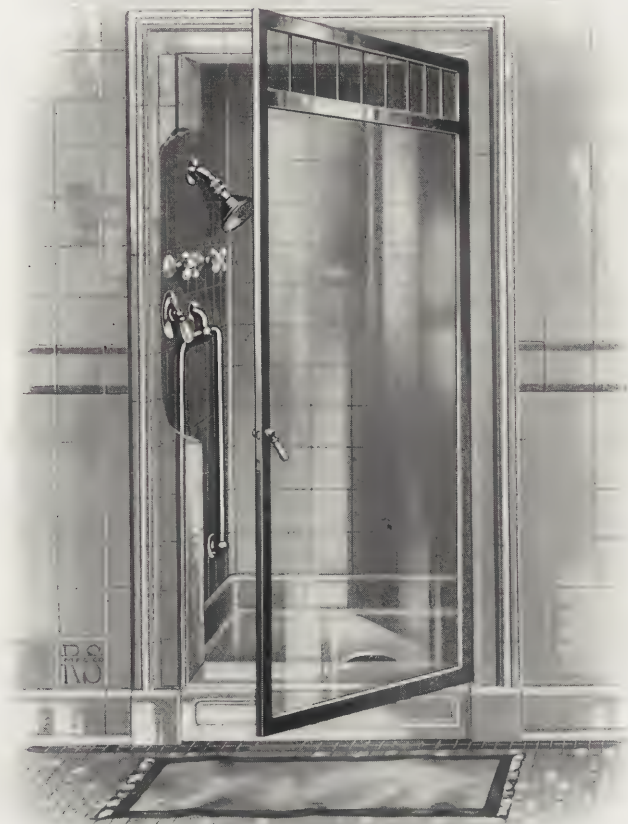
Galvanized Iron Needle Bath, 7 feet 6 inches High, Sixteen  $3\frac{5}{8}$ -inch Cast Brass Removable Face Spray Heads, Top and Bottom Sprays with Ball Joint.

Price, as described. . . . . 150.00

This shower is of extra heavy construction and is designed to withstand excessive abuse. Arranged to set 8 inches into concrete floor and bolt against wall. Made to operate from controlling table, but can be furnished with separate valves or mixing valve on wall near shower. Can also be furnished in Nickel-plated Brass.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## NEEDLE AND SHOWER BATHS



J-330

Nickel-plated Brass Combination Needle and Shower Bath with Ball Joint Shower Head, Nickel-plated Bent Supply Arm, Concealed Mixing Valve with China Handle, Controlling Valves with China Cross Handles and China Escutcheons; 42x42-inch Special Selection Porcelain Receptor with Nickel-plated Brass Strainer; Plate Glass Door with Brass Handle and Nickel-plated Brass Frame.

Price, as described ..... **360.00**  
 Price does not include tile.

The above shower can be furnished with Curtain Rod and White Duck Curtain, instead of Glass Door.

## NEEDLE AND SHOWER BATHS



J-332

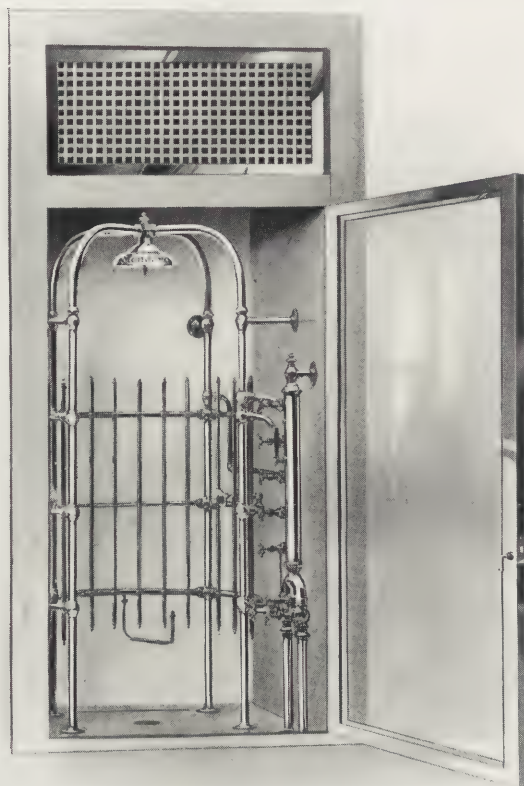
Nickel-plated Brass Combination Needle and Shower Bath with Concealed Mixing and Controlling Valves, 4-inch Nickel-plated Cast Brass Shower Head with Ball Joint and Bent Supply Arm, Six  $3\frac{5}{8}$ -inch Diameter Cast Brass Needle Sprays with Removable Face (Top Ones having Ball Joints), 42x42-inch Enameled Iron Receptor, Nickel-plated Brass Strainer, Nickel-plated Brass Curtain Rod and White Duck Curtain.

Price, as described..... 170.00

Base can be made of porcelain, marble or tile as desired.  
Price does not include concealed piping.



## NEEDLE AND SHOWER BATHS



**J-334**

Nickel-plated Combination Needle and Shower Bath with Head Shower, Douche, Needle Shower, Bidet and Liver Sprays, Mixing and Distributing Column with Thermometer and Drain, 1½-inch Supply Pipes to Floor with Check Valves and China Indexed Controlling Valves for each separate feature.

Price, as described..... **400.00**

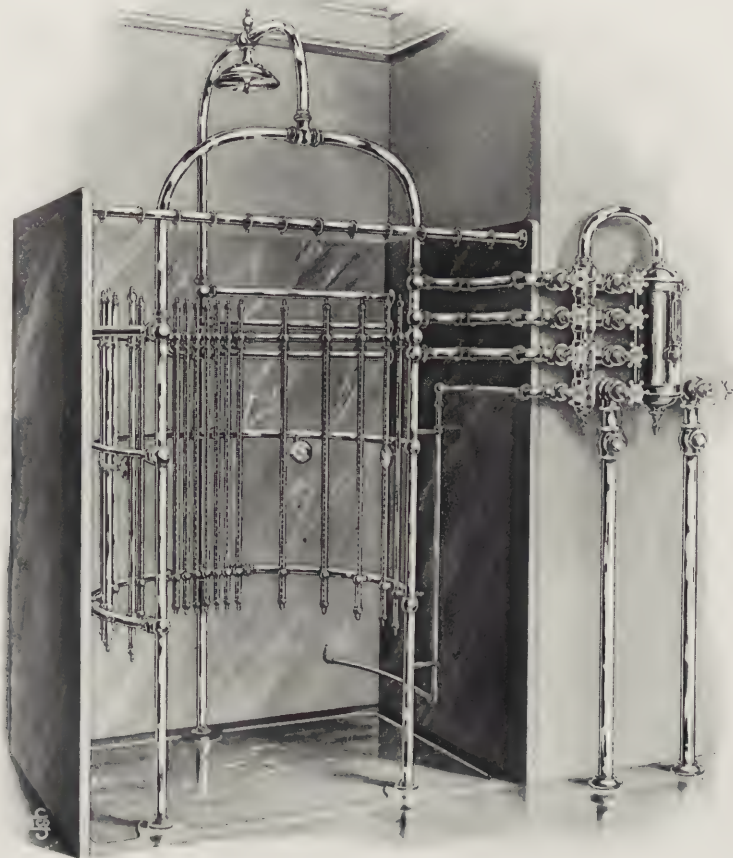
Italian Marble Stall, Side and Back ⅞ inch thick, 1½-inch Countersunk Marble Floor Slab with Nickel-plated Waste Strainer, Nickel-plated Angle Clamps, Glass Door with Nickel-plated Brass Frame and Marble Front with Brass Grill Work.

Price, as described.....

Size of Stall: 3 feet 8 inches Square Outside; 8 feet 6 inches High; Diameter of Needle, 3 feet 5 inches; Height of Shower, 7 feet 6 inches.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## NEEDLE AND SHOWER BATHS



**J-335**

Nickel-plated Brass Combination Needle and Shower Bath with Douche, Bidet, Liver and Spinal Sprays, Extra Large Mixing Chamber with Thermometer and Valve Column, Supply Pipes to Floor and China Indexed Handles.

Price, as described. . . . . 400.00

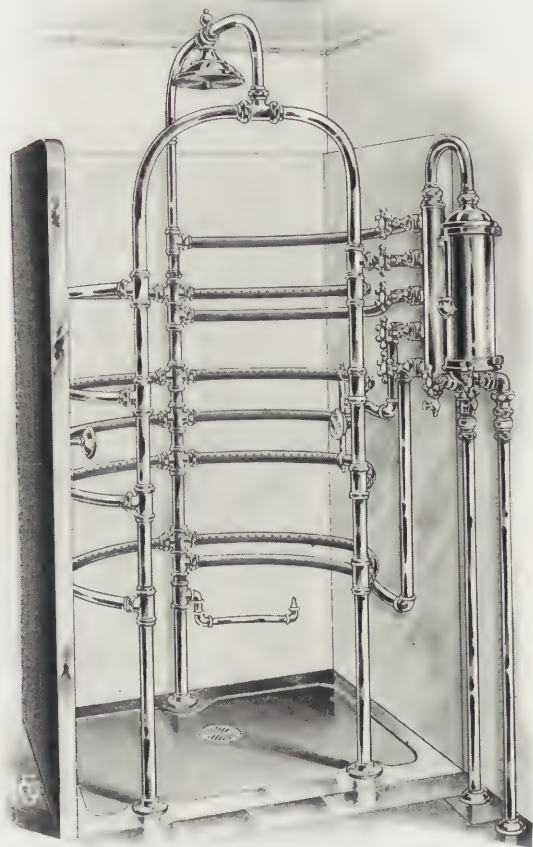
Italian Marble Stall,  $\frac{7}{8}$  inch Thick,  $1\frac{1}{2}$ -inch Thick Countersunk Base,  $5\frac{5}{8}$ -inch Nickel-plated Brass Waste Strainer with 3-inch Outlet, Angle Clamps, Curtain Rod and White Duck Curtain.

Price, as described. . . . .

Size of Stall: 3 feet 8 inches Square Outside; 6 feet 6 inches High. Diameter of Needle, 3 feet 5 inches; Height of Shower, 7 feet 6 inches.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## NEEDLE AND SHOWER BATHS



J-338

Nickel-plated Brass Combination Needle and Shower Bath with Douche, Bidet and Liver Sprays, Mixing Chamber with Thermometer and Valve Column, Supply Pipes to Floor and China Indexed Handles.

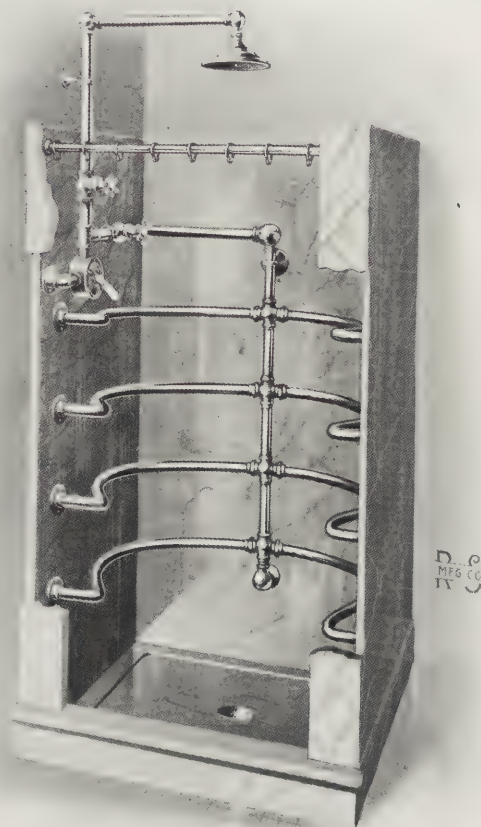
Diameter of Needle, 3 feet 4 inches; Height of Shower, 7 feet 6 inches.

Price, as described. . . . . 210.00

Marble stall extra.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## NEEDLE AND SHOWER BATHS



**J-340**

Nickel-plated Brass Combination Needle and Shower Bath with Exposed Mixing Valve with China Handle and Compression Valves with China Indexed Handles.

Price, as described ..... 105.00

If with Separate Valves, instead of Mixing Valve, deduct..... 15.00

Italian Marble Stall,  $\frac{7}{8}$  inch Thick,  $1\frac{1}{2}$ -inch Thick Countersunk Base,  $5\frac{5}{8}$ -inch Nickel-plated Brass Shower Head,  $6\frac{1}{2}$  inches; Angle Clamps, Curtain Rod and White Duck Curtain.

Price, as described .....

Size of Stall: 3 feet 2 inches Square Outside; 6 feet 6 inches High. Diameter of Needle, 3 feet; Diameter of Shower Head,  $6\frac{1}{2}$  inches; Height of Shower, 7 feet 6 inches.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.



## NEEDLE AND SHOWER BATHS



J-342

Nickel-plated Brass Combination Needle and Shower Bath with Exposed Mixing Valve with China Handle, Compression Valves with China Indexed Handles, and Check Valves.  
 Price, as described..... 70.00

Italian Marble Stall,  $\frac{7}{8}$  inch Thick,  $1\frac{1}{2}$ -inch Thick Countersunk Base,  $5\frac{5}{8}$ -inch Nickel-plated Brass Strainer with 3-inch Outlet, Angle Clamps, Curtain Rod and White Duck Curtain.  
 Price, as described.....

Size of Stall: 3 feet 2 inches Square Outside; 6 feet 6 inches High. Diameter of Shower Head,  $6\frac{1}{2}$  inches; Height of Shower, 7 feet 6 inches.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## NEEDLE AND SHOWER BATHS



**J-344**

Nickel-plated Brass Combination Needle and Shower Bath with Exposed Mixing Valve with China Handle, Compression Valves with China Indexed Handles, Check Valves and Ball Joint Shower Head.

Price, as described. . . . . 55.00

Italian Marble Stall,  $\frac{7}{8}$  inch Thick,  $1\frac{1}{2}$ -inch Thick Countersunk Base,  $5\frac{5}{8}$ -inch Nickel-plated Brass Strainer with 3-inch Outlet, Angle Clamps, Curtain Rod and White Duck Curtain.

Price, as described. . . . .

Size of Stall: 3 feet 2 inches Square Outside; 6 feet 6 inches High. Diameter of Shower Head, 5 inches; Height of Shower, 6 feet 6 inches.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## NEEDLE AND SHOWER BATHS



**J-346**

Nickel-plated Brass Combination Needle and Shower Bath with Ball Joint Shower Head, Concealed Mixing and Controlling Valve with China Handle and Compression Valves with China Cross Handles and China Escutcheons.

Price, as described..... 55.00

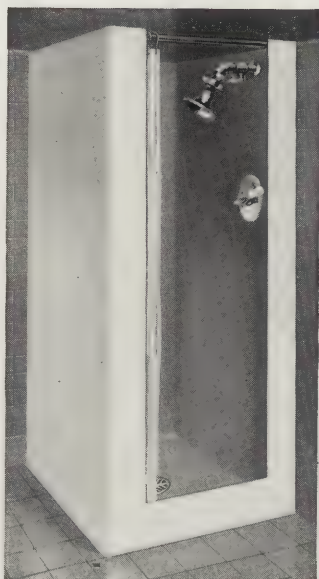
Italian Marble Stall,  $\frac{7}{8}$  inch Thick,  $1\frac{1}{2}$ -inch Thick Countersunk Base,  $5\frac{5}{8}$ -inch Nickel-plated Brass Strainer with 3-inch Outlet, Angle Clamps, Curtain Rod and White Duck Curtain.

Price, as described.....

Size of Stall: 3 feet 2 inches Square Outside; 6 feet 6 inches High. Diameter of Shower Head, 5 inches.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## METALLIC SHOWER STALLS



J-348

The modern and sanitary tendency is to bathe in running water. The use of the shower has consequently become a recognized necessity. Heretofore a marble, tile, slate or glass shower stall correctly installed and leak proof has been, in most cases, beyond reach financially, for general use. The metallic shower bath stall has reduced the cost of a shower stall to a minimum, in fact, less than half the cost of marble, tile, slate or glass, and has the following advantages:

It is durable; light in weight; non-absorbent; sanitary; leak proof; occupies the least space and is easy to install.

Made of No. 10 steel plate, rolled to shape; in two sizes, 32x32 and 36x36 inches square and 6-feet high. The bottom is slightly dished to drain to the center.

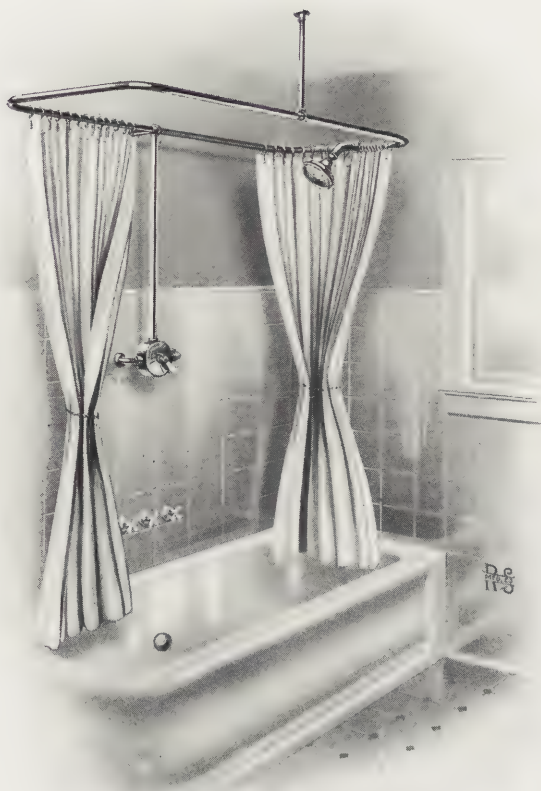
The stall is furnished coated with mineral paint and after installation is completed, should be finished in white enamel or tinted as desired.

Mixer control and shower are placed either right or left near entrance to shower, so that water may be tempered as desired before entering shower.

Size .....	inches	32x32	36x36
Approximate Shipping Weight.....	pounds	400	460
Price, Stall with Shower, Curtain Rail, Duck Curtain and Strainer..		160.00	.....



## SHOWER BATHS



J-354

Nickel-plated Brass Ball Joint Shower Head with White Duck Curtains and Nickel-plated Hooks, 24x42-inch Curtain Ring, Nickel-plated Brass Mixing Valve.

Price, as described. . . . . 60.00

For price on Bath Tub and Bath Tub Trimmings, see Bath Tub Section.

## SHOWER BATHS



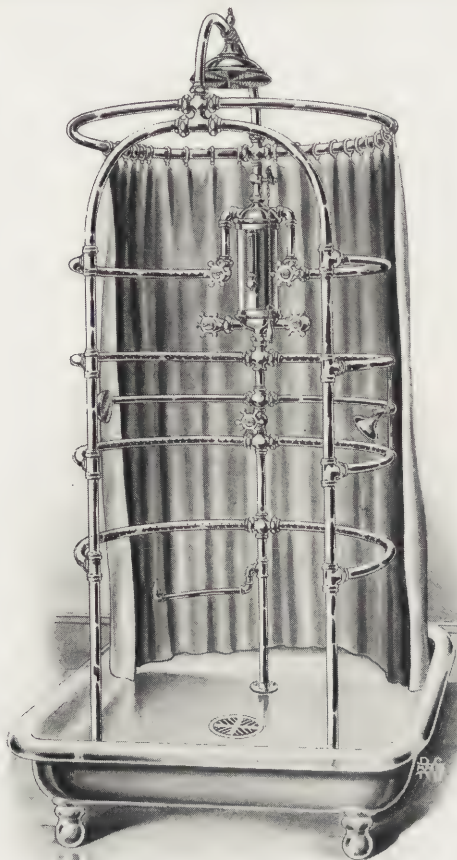
J-356

Nickel-plated Brass Ball Joint Shower Head with White Duck Curtains and Nickel-plated Hooks, 24x42-inch Curtain Ring, Concealed Body Mixing Valve with White Wall Plate.

Price, as described. ....	60.00
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See Bath Tub Section for price on Bath Tub and Bath Tub Trimmings.

## NEEDLE AND SHOWER BATHS



J-358

Nickel-plated Brass Combination Needle and Shower Bath with Bidet, Liver Sprays, Thermometer and Mixing Chamber with Compression Valves and China Indexed Handles, Curtain Ring, Curtain and 42x42-inch Enameled Iron Roll Rim Receptor.

Diameter of Oval Shower Ring, 35x40 inches; Diameter of Shower Head, 8 inches; Height of Shower, 7 feet 6 inches.

Price, as described ..... 220.00

The above Shower can also be furnished with Lever Handle Mixing Valve, instead of Mixing Chamber and Thermometer. Price quoted on application.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.

## NEEDLE AND SHOWER BATHS



J-360

Nickel-plated Brass Combination Needle and Shower Bath, with Compression Valves with China Indexed Handles, Soap Cup, Curtain Ring and White Duck Curtain.

Diameter of Shower,  $6\frac{1}{2}$  inches; Diameter of Curtain Ring, 25 inches.

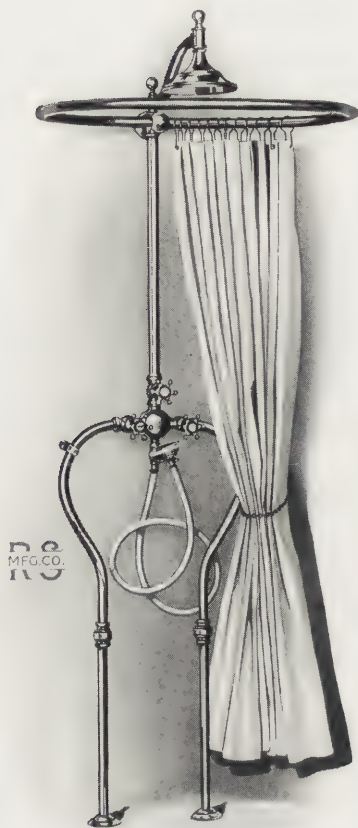
Price, as described.....	52.00
If without Soap Cup, deduct.....	2.00

The above Shower can also be furnished with Lever Handle Mixing Valve. Price quoted on application.

Needle showers should not be used where water pressure is less than 20 pounds, nor with small diameter supply pipes.



## SHOWER BATHS

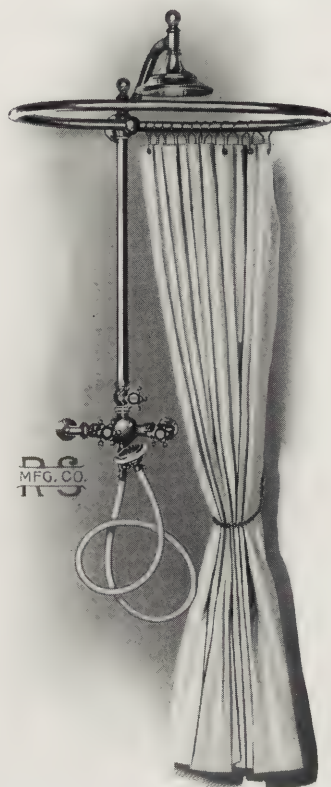


J-362

Nickel-plated Brass Shower Bath with 24x30-inch Curtain Ring and White Duck Curtain, 6½-inch Shower Head, Shampoo, Curved Supply Pipes to Floor with China Indexed Handles and Check Valves.

Price, as described .....	45.00
If without Check Valves, deduct .....	3.00

## SHOWER BATHS

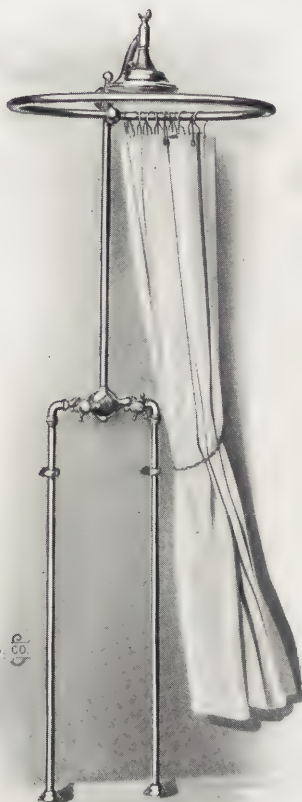


J-364

Nickel-plated Brass Shower Bath with 24x30-inch Curtain Ring, and White Duck Curtain, 6½-inch Shower Head and Shampoo, Supply Pipes to Wall with China Indexed Handles.

Price, as described . . . . .	37.00
If without Shampoo, deduct . . . . .	5.00

## SHOWER BATHS



J-366



J-368

J-366

Nickel-plated Brass Shower Bath with 24-inch Curtain Ring and White Duck Curtain, 6½-inch Shower Head, Supply Pipes to Floor with China Indexed Handles.

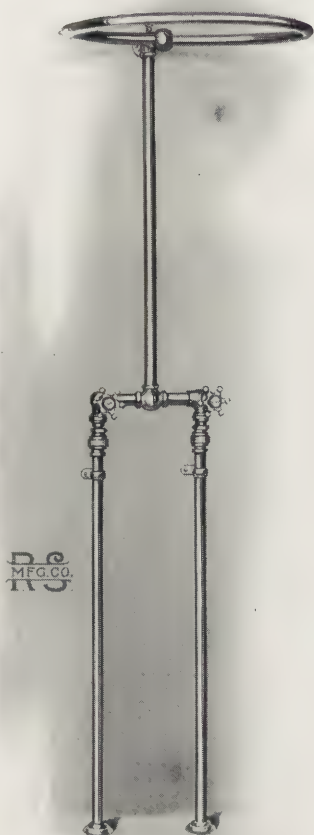
Price, as described. . . . . 30.00

J-368

Same as above except Supply Pipes attached to Wall.

Price, as described. . . . . 27.00

## SHOWER BATHS



J-370



J-372

### J-370

Nickel-plated Brass 20-inch Perforated Ring Shower Bath with Check Valves, Supply Pipes to Floor with China Indexed Handles.

Price, as described .....	20.00
Extra for Shampoo .....	5.00

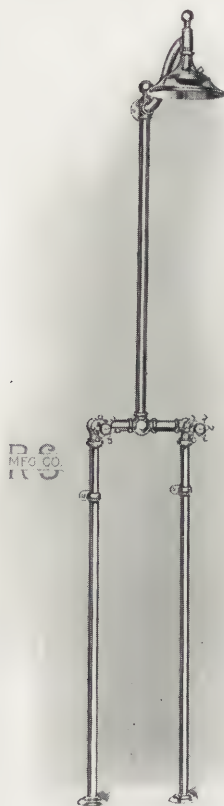
### J-372

Same as above, except Supply Pipes to Wall.

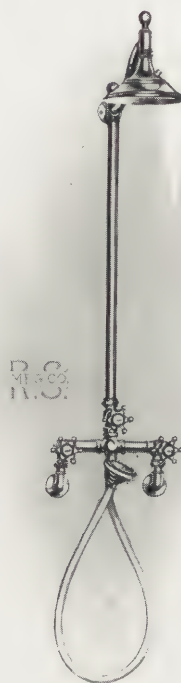
Price, as described .....	17.00
Extra for Shampoo .....	5.00



## SHOWER BATHS



J-374



J-376

### J-374

Nickel-plated Brass Shower Bath with 6½-inch Shower Head, Supply Pipes to Floor with China Indexed Handles.

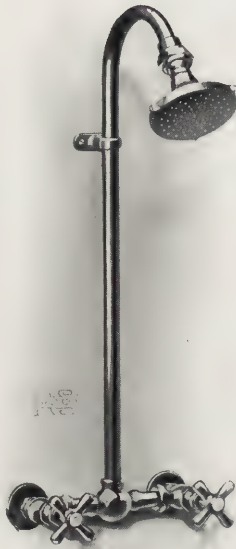
Price, as described.....	18.00
Extra for Shampoo.....	5.00

### J-376

Same as above, except with Shampoo and Supply Pipes to Wall.

Price, as described.....	20.00
If without Shampoo, deduct.....	5.00

## SHOWER BATHS



J-378



J-380

### J-378

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Gooseneck Supply Arm, and Compression Valves with Extra Heavy Large Handles with China Indexes and Supply to Wall.

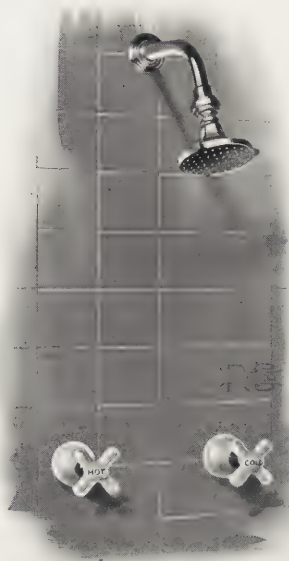
Price, as described..... 15.00

### J-380

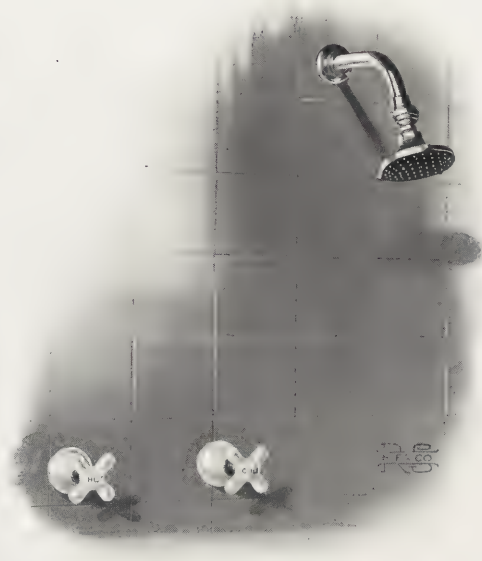
Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Gooseneck Supply Arm, Shampoo and Compression Valves with Extra Heavy Large Handles with China Indexes and Supply to Wall.

Price, as described ..... 20.00

## SHOWER BATHS



J-382



J-384

### J-382

Nickel-plated Brass Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head and Bent Supply Arm, Concealed Body Valves with China Handles and China Escutcheons, set directly under Shower Head.

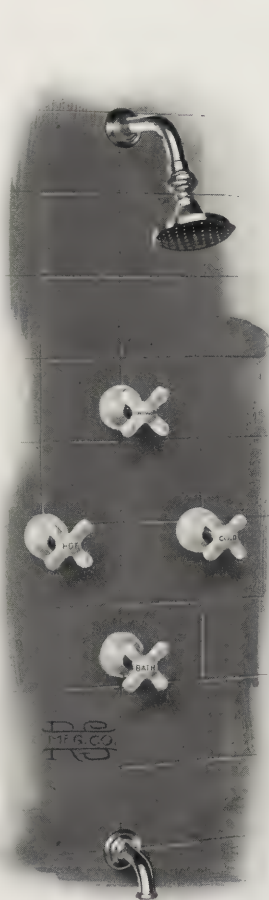
Price, as described ..... 20.00

### J-384

Nickel-plated Brass Shower Bath with 4-inch Cast Brass Ball Joint Shower Head, and Bent Supply Arm, Concealed Body Valves with China Handles and China Escutcheons, set to One Side of Shower Head.

Price, as described ..... 20.00

## SHOWER BATHS



J-386



J-388

### J -386

Nickel-plated Brass Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, and Bent Supply Arm, Nickel-plated Tub Spout, Main Hot and Cold also Controlling Valves with Concealed Bodies with China Handles and China Escutcheons. Price, as described.....

40.00

### J-388

Nickel-plated Brass Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, and Bent Supply Arm, Nickel-plated Tub Spout, Main Hot and Cold also Controlling Valves with Concealed Bodies with China Handles and China Escutcheons, Loose Key Concealed Body Stops with China Escutcheons. Price, as described.....

50.00



## SHOWER BATHS



J-390



J-392

### J-390

Galvanized Iron Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Compression Valves with Extra Heavy Large Handles with China Indexes and Supply to Wall.

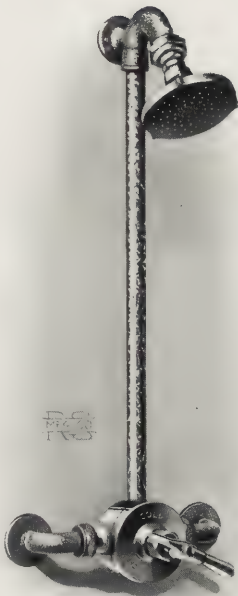
Price, as described..... 15.00

### J-392

Galvanized Iron Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Compression Valves with Extra Heavy Large Handles with China Indexes, Galvanized Supply Pipes and Nickel-plated Brass Loose Key Stops.

Price, as described..... 25.00

# SHOWER BATHS



J-394



J-396

## J-394

Galvanized Iron Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Nickel-plated Brass Exposed Mixing Valve with Nickel-plated Brass Handle and Supply Pipes to Wall.

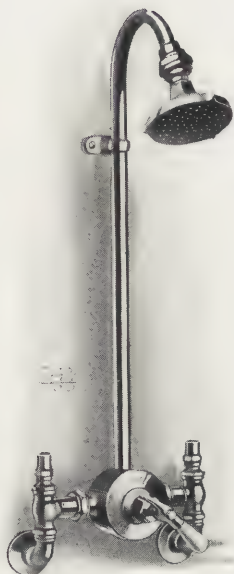
Price, as described..... 27.00

## J-396

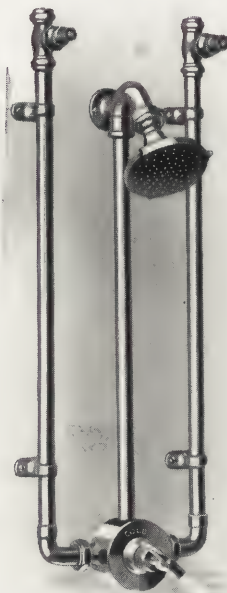
Galvanized Iron Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Nickel-plated Brass Exposed Mixing Valve, Nickel-plated Brass Handle and Galvanized Supply Pipes with Loose Key Stops.

Price, as described ..... 34.50

## SHOWER BATHS



J-398



J-400

### J-398

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Nickel-plated Brass Gooseneck Supply Arm, Nickel-plated Exposed Mixing Valve with China Lever Handle, Supply Pipes to Wall with Loose Key Stops.

Price, as described..... 32.50

### J-400

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Nickel-plated Brass Gooseneck Supply Arm, Nickel-plated Exposed Mixing Valve with China Lever Handle, Supply Pipes with Loose Key Stops.

Price, as described..... 40.00

## SHOWER BATHS



**J-402**



**J-404**

### J-402

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Bent Supply Arm and Concealed Mixing Valve with China Dial and Handle set directly under Shower Head.

Price, as described..... **30.00**

### J-404

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Bent Supply Arm and Concealed Mixing Valve with China Dial and Handle set to One Side of Shower Head.

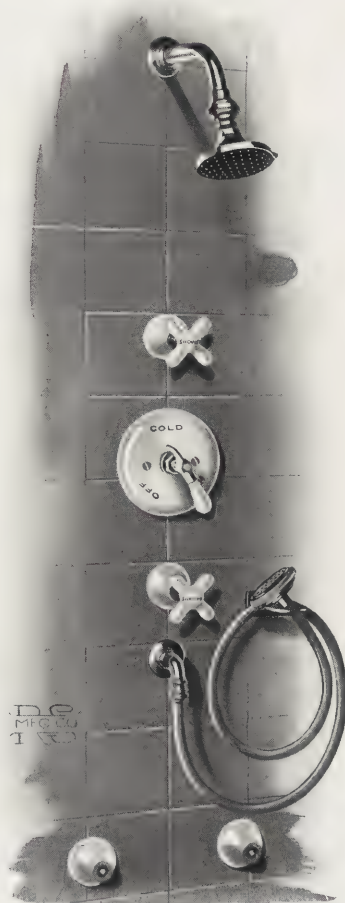
Price, as described..... **30.00**



## SHOWER BATHS



J-406



J-408

### J-406

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head and Bent Supply Arm, Concealed Mixing Valve with China Dial and Handle, Concealed Body Loose Key Stops with China Escutcheons.

40.00

### J-408

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head and Bent Supply Arm, Shampoo, Concealed Mixing Valve with China Dial, and Handle, Concealed Body Controlling Valves with China Handles and China Escutcheons, Concealed Body Loose Key Stops with China Escutcheons.

55.00

## SHOWER BATHS



J-410

J-410



J-412

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head with Bent Supply Arm, Nickel-plated Tub Spout, Concealed Mixing Valve with China Dial and Handle, Concealed Body Controlling Valves with China Handles and China Escutcheons, Concealed Body Loose Key Stops and China Escutcheons.  
Price, as described..... 55.00

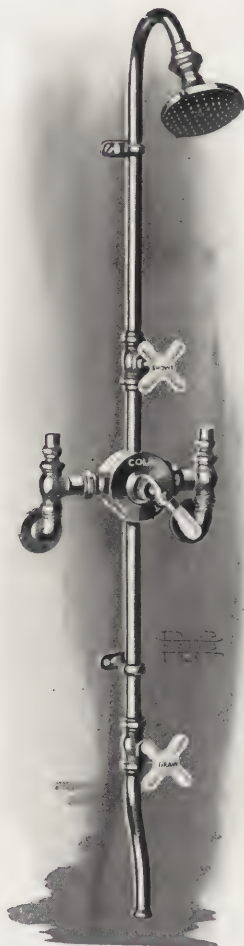
J-412

Nickel-plated Shower Bath with 4-inch Nickel-plated Cast Brass Ball Joint Shower with Bent Supply Arm, Nickel-plated Tub Spout, Concealed Mixing Valve with China Dial and Handle, Concealed Body Controlling Valves with China Handles and China Escutcheons.  
Price, as described..... 45.00

## SHOWER BATHS



J-414



J-416

### J-414

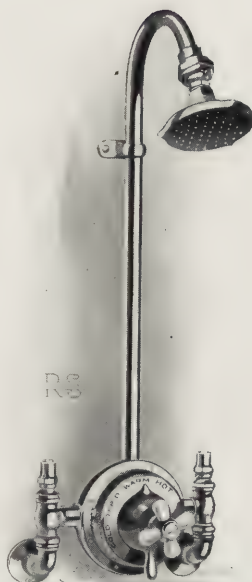
Nickel-plated Shower Bath and Pail Filler with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head and Bent Supply Arm with Volume Valve and China Handle, Concealed Mixing Valve with China Dial and Handle, Nickel-plated Compression Angle Pattern Stop with China Handle, Concealed Body Loose Key Stops with China Escutcheons. Price, as described..... 50.00

### J-416

Nickel-plated Shower Bath and Pail Filler with 4-inch Nickel-plated Cast Brass Ball Joint Shower Head, Exposed Mixing Valve, Nickel-plated Supply Pipes to Wall with Loose Key Stops, Nickel-plated Brass Spout and Compression Valves with China Handles. Price, as described..... 45.00

## SHOWER BATHS

ANTI-SCALDING



J-418



J-420

### J-418

Nickel-plated Shower Bath with Nickel-plated 4-inch Cast Brass Ball Joint Shower Head with Exposed Type Nickel-plated Brass Leonard Anti-scalding Mixing Valve with China Handle and Supply Pipes with Stops to Wall.

Price, as described..... 102.50

### J-420

Nickel-plated Shower Bath with Nickel-plated 4-inch Cast Brass Ball Joint Shower Head with Concealed Type Nickel-plated Brass Leonard Anti-scalding Mixing Valve with China Handle, Concealed Body Loose Key Stops with China Escutcheons.

Price, as described..... 115.00



## SHOWER BATHS



J-422



J-424

### J-422

Nickel-plated Brass Shower Bath with Mixing Valve, Curtain Ring and White Duck Curtain, Supply Pipes to Wall.

Diameter of Shower Head, 6½ inches; Diameter of Curtain Ring, 24 inches; Height of Shower, 7 feet 6 inches.

Price, as described.....	42.00
Extra for Shampoo Attachment.....	5.00

### J-424

Nickel-plated Shower Bath with Nickel-plated Brass 5-inch Ball Joint Shower Head with N. P. Mixing Valve, Check Valves, Adjustable Nickel-plated Brass Shampoo and Controlling Valves, Supply Pipes to Wall with Loose Key Stops.

Price, as described.....	47.50
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Adjustable shampoo is designed to swing up or down as shown by dotted lines in illustration.



## SHOWER HEADS



J-436



J-438



J-440

J-436—Nickel-plated Shower Head with Removable Face, Air Valve, Ball Joint and Flanged Wall Inlet Arm $\frac{1}{2}$ -inch I. P. Female .....				.....
Diameter of Face .....	inches	5		$6\frac{1}{2}$
Price .....	each	5.50		5.90
J-438—Nickel-plated Shower Head with Removable Face, Air Valve and $\frac{1}{2}$ -inch Ball Joint.				
Diameter of Face .....	inches	5		$6\frac{1}{2}$
Price .....	each	4.00		4.40
J-440—Nickel-plated Shower Head with 4-inch Removable Face and $\frac{1}{2}$ -inch Ball Joint .....				3.40



J-442



J-444



J-446

J-442—Nickel-plated Shower Head with 4-inch Removable Face, $\frac{1}{2}$ -inch Connection .....				1.60
J-444—Nickel-plated Removable Face Shower Head with Air Valve.				
Diameter of Face .....	inches	5	$6\frac{1}{2}$	8
Size, Iron Pipe Connection. "		$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$
Price .....	each	2.20	2.60	3.00
J-446—Nickel-plated, with Air Valve, Face not Removable, Connection $\frac{1}{2}$ -inch Iron Pipe.				
Diameter of Face .....	inches	5		$6\frac{1}{2}$
Price .....	each	1.20		1.60

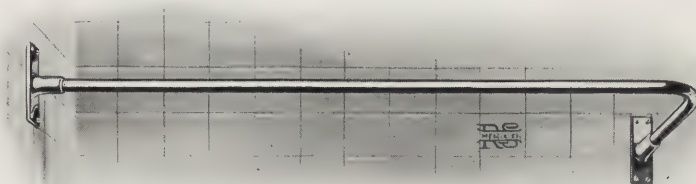
## CURTAIN RAILS



J-448

Nickel-plated Brass Straight Curtain Rail, 1-inch Outside Diameter Tubing with Wall Flanges. When ordering, give length of rail.

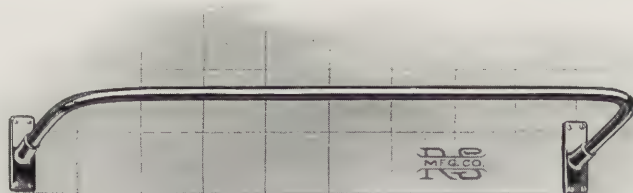
Price.....each .....



J-450

Nickel-plated Brass Corner Curtain Rail, 1-inch Outside Diameter Tubing, with Wall Flanges. When ordering give length of tub.

Price.....each .....



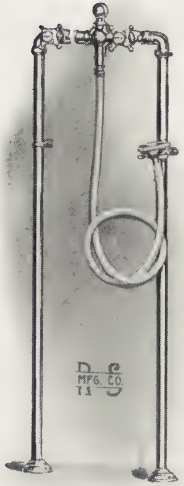
J-452

Nickel-plated Brass Curtain Rail for Wall Pattern Bath Tub, 1-inch Outside Diameter Tubing, 26x42 inches with Wall Flanges.

Price.....each .....



# SHAMPOOS AND DOUCHES



J-454

## SHAMPOOS

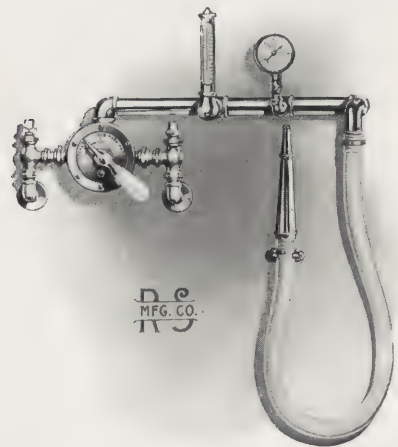
Nickel-plated Brass Shampoo with Compression Valves and China Index Handles, Nickel-plated Supply Pipes to Floor, Rubber Tubing, Sprinkler and Holder.

Price, as described..... 14.00

## DOUCHES

Nickel-plated Brass Douche with Mixing Valve and China Handle, Supply Pipes to Wall with Loose Key Controlling Stop Valves, Thermometer, Pressure Gauge, Rubber Tubing, Nozzle and Holder.

Price, as described..... 80.00



J-456

### SHAMPOOS



**J-458**

J-458—Nickel-plated Brass Shampoo, with Concealed Body, China Indexed Handles, Control Valves Rubber Tubing and Sprinkler.  
 Price, as described ..... 22.00

**J-460**

J-460—Nickel-plated Brass Shampoo with Exposed Body, China Indexed Handles, Control Valves, Rubber Tubing Sprinkler and Holder.  
 Price, as described..... 20.00



**J-462**

J-462—Nickel-plated Brass Shampoo with Exposed Body, China Cross Handles, Control Valves, Rubber Tubing, Sprinkler and Holder with Wall Bracket.  
 Price, as described..... 20.00

## BATH SPRAYS

### BRUSH SPRAY

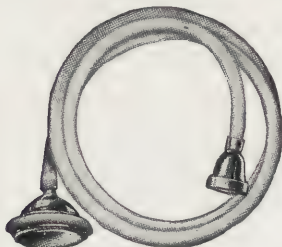


J-464

Rubber tipped bath brush spray with 5 feet of  $\frac{3}{8}$ -inch rubber tubing and faucet bulb.

Price..... each 2.25

### SPRAY WITH RUBBER RING



J-466

Nickel-plated bath spray, rubber cushioned, with 5 feet of  $\frac{3}{8}$ -inch rubber tubing and faucet bulb.

Price.....each 1.50

### SPRAY WITH BENT HANDLE AND RUBBER RING



J-468

Diameter of Face..inches	$2\frac{1}{2}$	3	4
Price.....each	1.75	2.25	3.75

### YOKE SPRAY

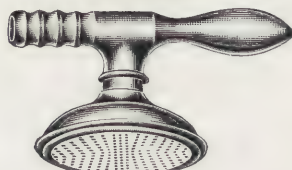


J-470

Nickel-plated brass spray with neck yoke and 5 feet of  $\frac{3}{8}$ -inch rubber tubing and faucet bulb.

Price.....each 1.55

### SPRAY WITH NICKEL-PLATED HANDLE

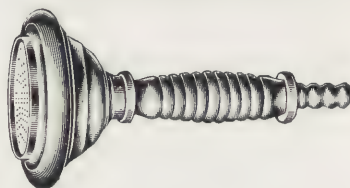


J-472

Diameter of Face.....inches  $2\frac{1}{2}$

Price.....each 1.15

### SPRAY WITH WOOD HANDLE AND RUBBER RING



J-474

Diameter of Face..inches	$2\frac{1}{2}$	3	4
Price.....each	1.25	1.50	2.75

### SPRAY WITH DETACHABLE SHANK AND RUBBER RING



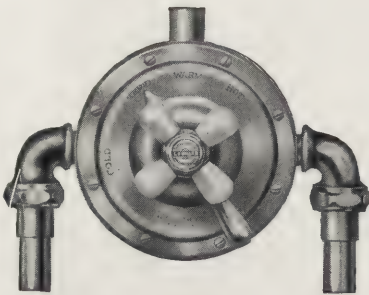
J-476

Diameter of Face..inches	$2\frac{1}{2}$	3	4
Price.....each	.55	.75	2.00

LEONARD THERMOSTATIC WATER  
MIXING VALVES

TYPE L

EXPOSED TYPE



J-478

This valve will almost instantly provide blended water at a known temperature. Unequal pressure in the hot and cold water supplies do not affect the accuracy of operation. If either the hot or cold water supply should cease entirely the valve would shut off automatically, a possibility for which the ordinary mixing valve does not provide.

The exposed type of valve has a capacity of 9 gallons per minute under 40 pounds pressure. Inlets are 1/2-inch, I. P. size; outlet, 3/4-inch, I. P. size.

It is compactly built, as it extends into the shower stall only 6 inches, and the base casting is so designed that it permits the supply pipes to and from the valve to set practically flush with the wall.

The type L valves are particularly adapted for hotel use, as all working parts are assembled on the face plate, which is removed by unscrewing the screws on flange. All parts are standardized and interchangeable, thus making it possible to install a new face plate and working parts while other is being cleaned or parts replaced.

The dial is marked, Cold, Tepid, Warm, Hot.

Price, with Nickel-plated Handle.....	each	58.00
“ “ 4-Arm China Tipped Handle.....	“	62.00

CONCEALED TYPE

The concealed or wall type valve has a capacity of 9 gallons per minute under 40 pounds pressure. Inlets 1/2-inch, I. P. size; outlet 3/4-inch I. P. size.

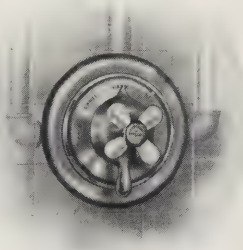
This valve can be placed in practically any partition as it is compactly built and requires only a space of 3 3/4 inches. The base parts extend out of the wall 4 1/2 inches. The diameter of the wall escutcheon is 6 7/8 inches.

All operating parts are assembled to the face plate and are removed as one unit. All repacking can be done from the front without disturbing base casting in the wall.

There are two adjustable safety stops under the regulating pointer escutcheon which limit the range of bathing temperatures to anti-scalding and anti-chilling. By removing or re-setting these stops hot and cold water can be drawn though the valve.

One-quarter turn of hand wheel opens or closes the valve.

The dial is marked Cold, Tepid, Warm, Hot.



J-480

Price, with Nickel-plated Handle.....	each	63.00
“ “ 4-Arm China Tipped Handle.....	“	67.00



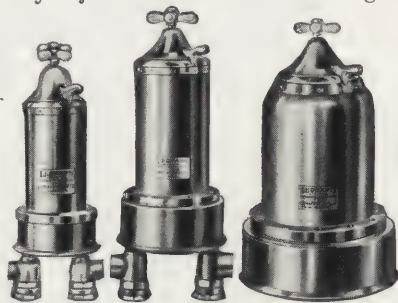
## LEONARD THERMOSTATIC MIXING VALVES



J-482

By use of this valve the temperature of the water supply to plumbing fixtures can be predetermined and maintained at the desired temperature regardless of variations in pressure. If the pressure of the hot or cold supply changes after the valve is set, the thermostatic coils instantly adjust the balanced valves to give the predetermined temperature of water. If the cold or hot water supply to the valve were suddenly shut off the valve would automatically shut off the supply to the fixture. This prevents the possibility of the user being scalded or chilled.

Constructed of bronze castings, nickel-plated finish with 4-arm china handle and temperature scale marked 80°, 90°, 100°, 110° and 120°.



J-484

Special markings quoted on request. Made in six sizes for exposed piping. Also can be furnished for concealed piping except B-5 and B-120. If for concealed piping with wall flange specify whether valve is to be in a vertical or horizontal position.

### MODEL B-5

For baby bath control. Volume of water restricted to 5 gallons per minute; 40 pounds pressure. Check valves and strainers furnished. Inlets,  $\frac{1}{2}$ -in., outlet,  $\frac{3}{4}$ -in. iron pipe size. Price, for Exposed Piping Only, **125.00**

### MODEL B-10

For combination shower and small hydriatic apparatus for residences, clubs, garages, turkish baths, etc. Capacity, 15 gallons per minute; 40 pounds pressure. Check valves and strainers furnished. Inlets,  $\frac{1}{2}$ -inch, outlet,  $\frac{3}{4}$ -inch iron pipe size. Price for Exposed Piping, **125.00**; with Wall Flange for Concealed Piping, **140.00**.

### MODEL B-20

For combination shower with rain heads and hydriatic apparatus, for large residences, clubs, gymnasiums and industrial plants. Capacity, 25 gallons per minute; 40 pounds pressure. Check valves and strainers furnished. Inlets,  $\frac{3}{4}$ -in., outlet, 1-inch iron pipe size. Price, for Exposed Piping, **150.00**; with Wall Flange for Concealed Piping, **165.00**.

### MODEL B-40

For control of large battery of showers, control tables and lavatories in hotels, hospitals and public institutions. Capacity, 45 gallons per minute; 40 pounds pressure. Check valves and strainers furnished. Inlets, 1-inch, outlet,  $1\frac{1}{4}$ -inch iron pipe size. Price, for Exposed Piping, **185.00**; with Wall Flange for Concealed Piping, **205.00**

### MODEL B-60

For control of shower batteries, rotary washers, lavatories in schools, clubs, municipal baths, laundries, etc. Capacity, 55 gallons per minute; 40 pounds pressure. Check valves and strainers furnished. Inlets,  $1\frac{1}{4}$ -inch, outlet,  $1\frac{1}{2}$ -inch iron pipe size. Price, for Exposed Piping, **210.00**; with Wall Flange for Concealed Piping, **230.00**.

### MODEL B-120

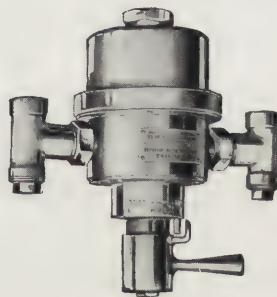
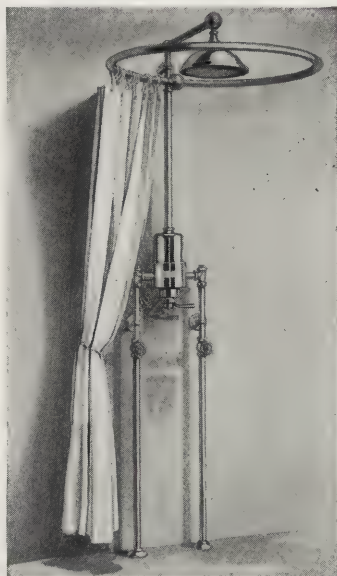
For regulation of water temperature in main line for tubs, showers and lavatories in sanitariums, clubs, gymnasiums, turkish baths and large laundries and industrial institutions. Capacity, 120 gallons per minute; 40 pounds pressure. Furnished with strainers. Check valves not furnished. Inlets,  $1\frac{1}{2}$ -inch, outlet, 2-inch iron pipe size. Price, for Exposed Piping, **275.00**

### LOCK ESCUTCHEONS

Can be furnished for temperature and volume control or temperature control only. A wrench is required to change adjustment of volume or temperature where lock escutcheons are used, thereby avoiding the necessity of placing the valve in a locked cabinet. Price, for Models B-5, B-10 and B-20 each, **6.00**; for Models B-40, B-60 and B-120 each, **10.00**

## POWERS THERMOSTATIC SHOWER CONTROLLERS

CONNECTED TO SHOWER



J-486

The thermostatic shower bath and hot water line controller, an automatic safeguard against the overheating of hot water service lines.

It is operated by the temperature of the water delivery and adjusts itself instantly to any changes in temperature or pressure of supply lines. Absolutely protects against scalding.

Complete with unions, strainer tees and check valves as shown. Made in all sizes up to 2½ inches.

### PRICE LIST THERMOSTATIC WATER CONTROLLER

No.	Description	Capacities Gallons per Minute	CONNECTIONS, INCHES		Price Each
			Inlet	Outlet	
1	For Individual Shower	...	½	¾	100.00
3	4 Shower Heads	25	¾	1	125.00
4	8 " "	50	1	1¼	150.00
5	15 " "	80	1¼	1½	175.00
6	20 " "	100	1½	2	185.00
7	40 " "	150	2	2½	200.00
8	50 " "	200	2½	2½	225.00

Capacities are based on 40 pounds water pressure.

Controllers Nos. 1 to 4, inclusive, are made of brass and can be furnished in plain finish or full nickel-plate. Also made in special metals if desired. Nos. 5 to 8, inclusive, have iron bodies, with bronze linings and valves. All controllers are furnished with inlet check valves and removable filter screens.

The Powers Controllers can be furnished to deliver water at any desired temperature but for all shower bath equipment, unless otherwise specified, are given a maximum limit of 110°. Mixers desired for hot water line control should be so specified and will be set to deliver at a maximum of 135°.

## SHOWER STALLS



J-488

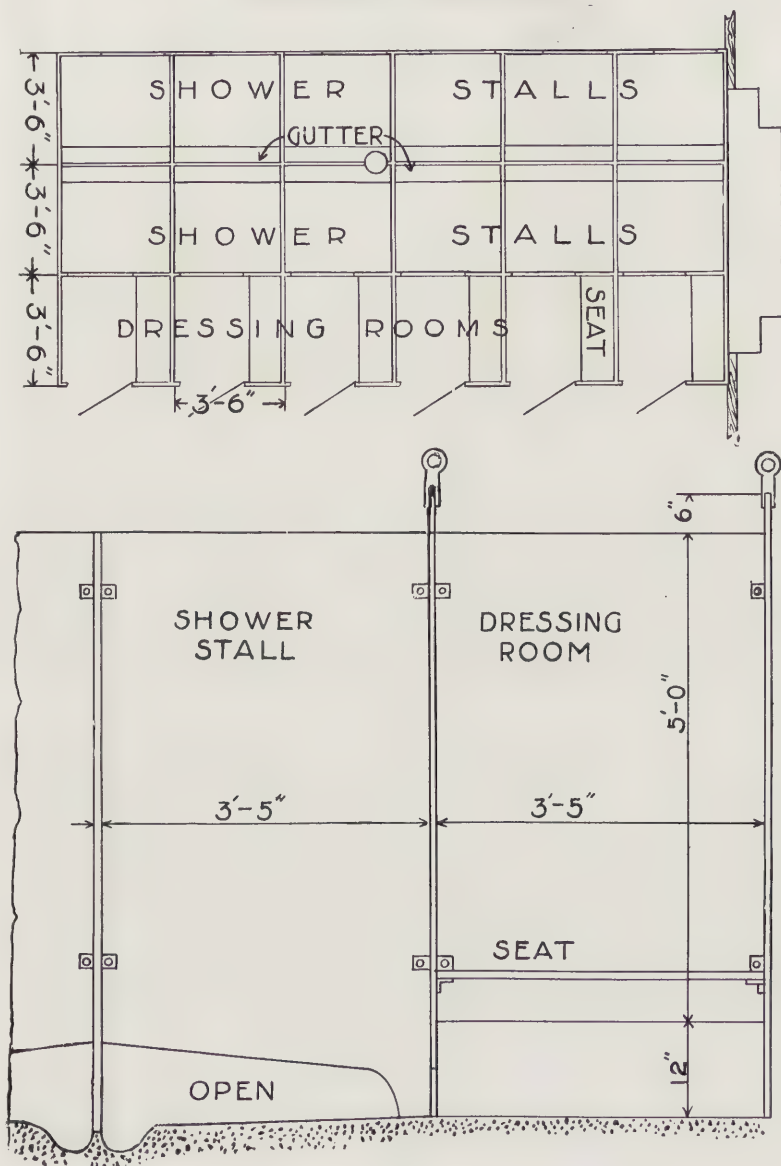
Double Battery of Slate Shower Stalls, One Side showing Stalls with White Duck Curtains without Dressing Room. Opposite Side shows addition of Dressing Rooms with Doors; complete Plan and Section shown on following page.

Price covering Stalls in Slate or Marble will be furnished upon application.

NOTE.—Inquiries for prices on stalls should be accompanied by a sketch giving full details of arrangements, sizes of compartments, height, etc.



# SHOWER STALLS

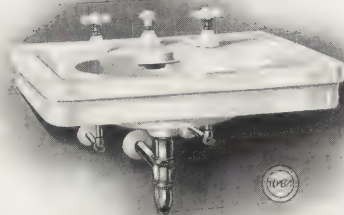


J-490

Plan and Section of Shower Stalls and Dressing Rooms shown on preceding page. White Duck Curtain and Riser at entrance to all Shower Rooms; Dressing Rooms furnished with Wooden Doors. White Duck Curtains may be used instead of Wooden Doors, if preferred.



## VITREOUS CHINA LAVATORIES



J-540

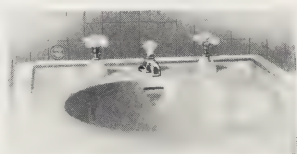
Vitreous China Straight Front Lavatory with D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow and Integral China Mixing Chamber with Single-stream Integral Nozzle, concealed Carrier built in Wall and Floor, with Brackets Concealed in Slab, fitted with Compression Valves with Four-arm Solid China Handles and China Escutheons, Lift Waste with China Knob and Escutcheon, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 22x27 inches      Basin 13x17 inches  
 Slab 24x30 inches      Basin 14x20 inches

Size.....inches      22x27      24x30  
 Price, as described.....

This lavatory can be furnished at lower price with a carrier that bolts to the studding and does not extend down to and into floor, but uses the same concealed bracket as shown below and is known as Studding Carrier.

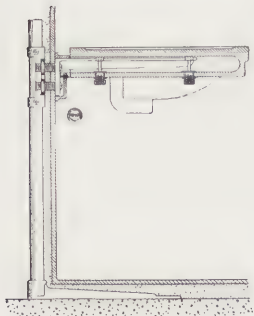
Same Lavatory as above, except fitted with Combination Nickel-plated Brass Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutheons, Lift Waste with China Knob.



J-542

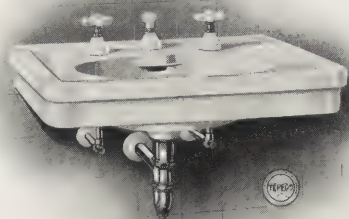
## FLOOR-WALL CARRIERS

This carrier is built into the floor and wall, completely covered by floor and wall finish and carries the lavatory without placing any part of the weight of the lavatory on the wall structure. The above lavatory is so made as to conceal the bracket in between the top and bottom slab of the lavatory, the part of bracket between the lavatory and wall being covered by a china escutcheon.



J-544

## VITREOUS CHINA LAVATORIES



Vitreous China Straight Front Lavatory with D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow and Integral China Mixing Chamber with Single-stream Integral Nozzle, Concealed Carrier built in Wall and Floor with Exposed Bracket, fitted with Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob and Escutcheon, Nickel-plated Supplies to Wall, Angle Shut-off Valves and Nickel-plated P Trap.

Slab 21x24 inches	Basin 12x16 inches
Slab 22x27 inches	Basin 13x17 inches
Slab 24x30 inches	Basin 14x20 inches

Size.....inches	21x24	22x27	24x30
Price, as described...	.....	.....	.....

**J-546**

This lavatory can be furnished at lower price with a carrier that bolts to the studding and does not extend down to and into floor, but uses the same exposed bracket as shown below and is known as Studding Carrier.

**J-548**

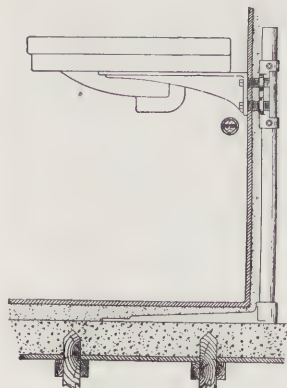
Same Lavatory as above, except fitted with Combination Nickel-plated Brass Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob.



**J-548**

### FLOOR WALL CARRIERS

This carrier is built into the floor and wall completely covered by floor and wall finish and carries the lavatory without placing any part of the weight of the lavatory on the wall structure.



**J-550**

## VITREOUS CHINA LAVATORIES

**J-552**

Vitreous China Straight Front Lavatory with D Pattern Quick-drain Basin, Anti-splash Rim, Improved Sanitary Open Overflow and Patented Integral China Mixing Chamber with Single-stream Integral Nozzle, Vitreous China Square Pedestal and Nickel-plated Wall Brackets, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob and Escutcheon, Nickel-plated Supply Pipes to Wall, Angle Shut-off Valves, Nickel-plated P Trap.

Slab 21x24 Inches	Basin 12x16 Inches
Slab 22x27 Inches	Basin 13x17 Inches
Slab 24x30 Inches	Basin 14x20 Inches

Size.....inches	21x24	22x27	24x30
Price, as described.....	.....	.....	.....

**J-554****J-554**

Vitreous China Straight Front Lavatory with D Pattern Quick-drain Basin, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Square Pedestal and Nickel-plated Wall Brackets, Combination N.P. Brass Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob, Nickel-plated Supply Pipes to Wall, Angle Shut-off Valves, Nickel-plated P Trap.

Slab 21x24 Inches	Basin 12x16 Inches
Slab 22x27 Inches	Basin 13x17 Inches
Slab 24x30 Inches	Basin 14x20 Inches

Size.....inches	21x24	22x27	24x30
Price, as described.....	.....	.....	.....

## VITREOUS CHINA LAVATORIES



**J-556**

Vitreous China Oval Lavatory with D Pattern Quick-drain Basin, Anti-splash Rim, Improved Sanitary Open Overflow and Patented Integral China Mixing Chamber with Single-stream Integral Nozzle, Vitreous China Round Pedestal and Nickel-plated Wall Brackets, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob and Escutcheon, Nickel-plated Supply Pipes to Wall, Angle Shut-off Valves, Nickel-plated P Trap.

Slab 22x27 Inches	Basin 13x17 Inches
Slab 22x30 Inches	Basin 13x17 Inches

Size .....	inches	22x27	22x30
Price, as described .....		.....	.....

**J-558**

Vitreous China Oval Lavatory with D Pattern Quick-drain Basin, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Round Pedestal and Nickel-plated Wall Brackets, fitted with Combination Nickel-plated Brass Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob, Nickel-plated Supply Pipes to Wall, Angle Shut-off Valves, Nickel-plated P Trap.

Slab 22x27 Inches	Basin 13x17 Inches
Slab 22x30 Inches	Basin 13x17 Inches

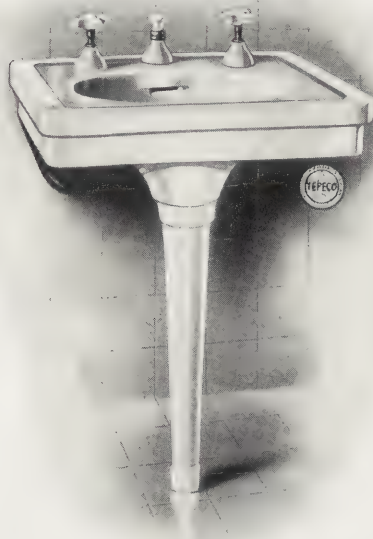
Size .....	inches	22x27	22x30
Price, as described .....		.....	.....



**J-558**



## VITREOUS CHINA LAVATORIES



**J-560**

Vitreous China Straight Front Lavatory with D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow and Integral China Mixing Chamber with Single-stream Integral Nozzle, Vitreous China Leg and Nickel-plated Wall Brackets, fitted with Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob and Escutcheon, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 18x20 inches  
Slab 21x24 inches

Basin 11x14 inches  
Basin 12x16 inches

Size .....	inches	18x20	21x24
Price, as described .....		.....	.....



**J-562**

**J-562**

Vitreous China Straight Front Lavatory with D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Leg and Nickel-plated Wall Brackets, fitted with Nickel-plated Brass Compression Cocks, with Four-arm Solid China Handle, Lift Waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 18x20 inches  
Slab 21x24 inches

Basin 11x14 inches  
Basin 12x16 inches

Size .....	inches	18x20	21x24
Price, as described .....		.....	.....

VITREOUS CHINA LAVATORIES



J-564

Vitreous China Straight Front Lavatory with D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Leg and Nickel-plated Wall Brackets, fitted with Nickel-plated Brass Combination Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 18x20 inches  
Slab 21x24 inches

Basin 11x14 inches  
Basin 12x16 inches

Size.....	inches	18x20	21x24
Price, as described.....		.....	.....



J-566

J-566

Vitreous China Straight Front Lavatory with D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Leg and Nickel-plated Wall Brackets, Nickel-plated Brass Compression Cocks, with Four-arm Solid China Handles, Nickel-plated Brass Ball Chain and Chain Stay, Plug and Coupling, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 18x20 inches  
Slab 21x24 inches

Basin 11x14 inches  
Basin 12x16 inches

Size.....	inches	18x20	21x24
Price, as described.....		.....	.....

## VITREOUS CHINA LAVATORIES

**J-568**

Vitreous China Straight Front Lavatory with Integral Back and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Leg and Nickel-plated Wall Brackets, fitted with Combination Nickel-plated Brass Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

	S'ab 18x20 inches	Basin 11x14 inches	Back 6 inches		
	S ab 21x24 inches	Basin 12x16 inches	Back 7 inches		
Size .....			.....inches	18x20	21x24
Price, as described .....					

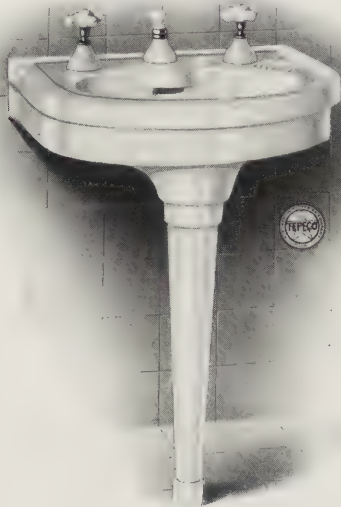
Can furnish above lavatory with integral china mixing chamber at an additional charge.

**J-570****J-570**

Vitreous China Straight Front Lavatory with Integral Back and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Leg and Nickel-plated Wall Brackets, fitted with Nickel-plated Brass Compression Cocks, with Four-arm Solid China Handles, Lift Waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

	Slab 18x20 inches	Basin 11x14 inches	Back 6 inches		
	Slab 21x24 inches	Basin 12x16 inches	Back 7 inches		
Size .....			.....inches	18x20	21x24
Price, as described .....					

VITREOUS CHINA LAVATORIES



J-572

Vitreous China Round Front Lavatory with Tiling Ledge and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow and Integral China Mixing Chamber with Single-stream Integral Nozzle, Vitreous China Leg and Nickel-plated Wall Brackets, fitted with Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob and Escutcheon, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 20x22 inches	Basin 12x16
Slab 20x24 inches	Basin 12x16

Size.....	inches	20x22	20x24
Price, as described.....			



J-574

J-574

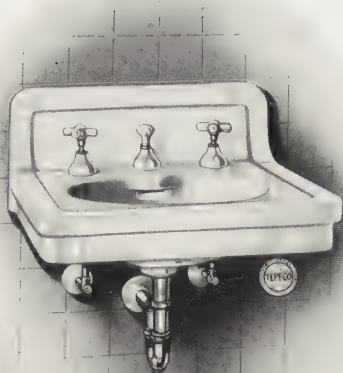
Vitreous China Round Front Lavatory with Tiling Ledge and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Vitreous China Leg and Nickel-plated Wall Brackets, fitted with Combination Nickel-plated Brass Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 20x22 inches	Basin 12x16
Slab 20x24 inches	Basin 12x16

Size.....	inches	20x22	20x24
Price, as described.....			



## VITREOUS CHINA LAVATORIES



J-576

Vitreous China Straight Front Lavatory with Integral Back and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow and Integral China Mixing Chamber with Single-stream Integral Nozzle; on Concealed Bar Hanger fitted with Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob and Escutcheon, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 21x24 inches      Basin 12x16 inches  
Back 7 inches

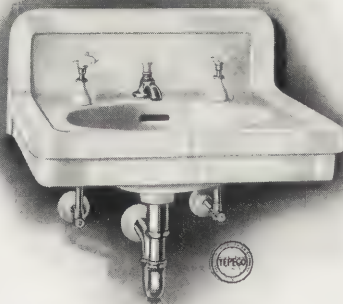
Price, as described . . . . .

Vitreous China Straight Front Lavatory with Integral Back and D Pattern Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Concealed Bar Hanger fitted with Combination Nickel-plated Brass Single-stream Spout Supply and Waste Fitting, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Lift Waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves and Nickel-plated P Trap.

Slab 18x20 inches      Basin 11x14 inches  
Back 6 inches  
Slab 21x24 inches      Basin 12x16 inches  
Back 7 inches

Size . . . . . inches      18x20      21x24

Price, as described . . . . .



J-578

## VITREOUS CHINA LAVATORIES



J-580

Vitreous China Straight Front Lavatory with Integral Back and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Concealed Bar Hanger, fitted with Nickel-plated Brass Compression Cocks, with Four-arm Solid China Handles, Lift Waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 18x20 inches	Basin 11x14 inches
	Back 6 inches
Slab 21x24 inches	Basin 12x16 inches
	Back 7 inches

Size . . . . . inches	18x20	21x24
Price, as described. . . . .		

Vitreous China Straight Front Lavatory with Integral Back and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Concealed Bar Hanger, fitted with Nickel-plated Brass Compression Cocks, with Four-arm Solid China Handles, Nickel-plated Brass Chain and Chain Stay, Plug and Coupling, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab 18x20 inches	Basin 11x14 inches
	Back 6 inches
Slab 21x24 inches	Basin 12x16 inches
	Back 7 inches

Size . . . . . inches	18x20	21x24
Price, as described. . . . .		



J-582

## VITREOUS CHINA LAVATORIES



J-584

Vitreous China Corner Lavatory with Integral Back and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, fitted with Nickel-plated Brass Compression Cocks, with Four-arm Solid China Handles, Lift waste with China Knob, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab $16\frac{1}{2} \times 16\frac{1}{2}$ inches	Basin 11x14 inches
	Back 6 inches
Slab $19\frac{1}{2} \times 19\frac{1}{2}$ inches	Basin 12x16 inches
	Back 6 inches

Size . . . . . inches	$16\frac{1}{2} \times 16\frac{1}{2}$	$19\frac{1}{2} \times 19\frac{1}{2}$
Price, as described	. . . . .	. . . . .

Vitreous China Corner Lavatory with Integral Back and D Pattern Quick Drain Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, fitted with Nickel-plated Brass Compression Cocks, with Four-arm Solid China Handles, Nickel-plated Brass Chain and Chain Stay, Plug and Coupling, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

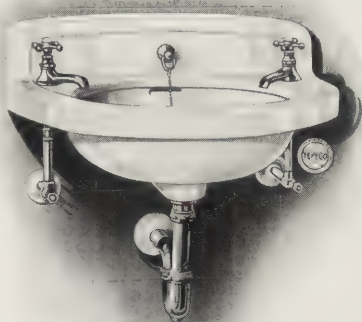
Slab $16\frac{1}{2} \times 16\frac{1}{2}$ inches	Basin 11x14 inches
	Back 6 inches
Slab $19\frac{1}{2} \times 19\frac{1}{2}$ inches	Basin 12x16 inches
	Back 6 inches

Size . . . . . inches	$16\frac{1}{2} \times 16\frac{1}{2}$	$19\frac{1}{2} \times 19\frac{1}{2}$
Price as described	. . . . .	. . . . .



J-586

## VITREOUS CHINA LAVATORIES



J-588

Vitreous China Spacesaver Lavatory with Integral Back and Oval Bowl, Anti-splash Rim, Improved Sanitary Open Overflow on Concealed Clip Hangers, fitted with Nickel-plated Compression Cocks with China Index Four-Ball Handles, Nickel-plated Brass Ball Chain and Chain Stay through Back, Plug, and Coupling, Nickel-plated Supplies to Wall Angle Shut-off Valves, and Nickel-plated P Trap.

Slab  $13\frac{1}{2} \times 20$  inches      Basin  $8\frac{1}{2} \times 12$  inches  
Back,  $4\frac{3}{4}$  inches

Price, as described. . . . .

Vitreous China Spacesaver Lavatory with Integral Back and Oval Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Concealed Clip Hangers, fitted with Nickel-plated Compression Cocks with China Index Four-Ball Handles, Cross Handle Lift Waste through Back, Nickel-plated Supplies to Wall, Angle Shut-off Valves, and Nickel-plated P Trap.

Slab  $13\frac{1}{2} \times 20$  inches      Basin  $8\frac{1}{2} \times 12$  inches  
Back,  $4\frac{3}{4}$  inches

Price, as described. . . . .



J-590



## VITREOUS CHINA LAVATORIES



Vitreous China Lavatory with Integral Back, Oval Bowl with Integral China Strainer, Anti-splash Rim and Integral China Mixing Chamber with Single-stream Integral Nozzle, Concealed Clip Hangers, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Nickel-plated Supply Pipes to Wall with Angle Shut-off Valves, Nickel-plated P Trap, and Wall Escutcheons.

Slab 12x20 inches   Basin 9x11½ inches  
Back 5 inches

Price, as described.....

The Supply Feature of this Lavatory is the most sanitary.

The size of the Lavatory permits installation in limited space.

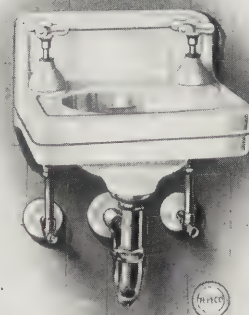
J-592

### DENTAL

Vitreous China Straight Front Dental Lavatory with Integral Back, Oval Bowl with Integral Flush Rim and Integral China Strainer, Integral China Mixing Chamber with Single-stream Integral Nozzle, Concealed Clip Hangers, Compression Valves with Four-arm Solid China Handles and China Escutcheons, Nickel-plated Supply Pipes to Wall with Angle Shut-off Valves, Nickel-plated P Trap and Wall Escutcheons.

Slab 12½x14 inches   Basin 6½x8½ inches  
Back 4½ inches

Price, as described.....



J-594

# SOLID PORCELAIN BARBERS' LAVATORIES



J-620

Solid Porcelain Barbers' Two-bowl Lavatory with D Pattern Quick Drain Bowls and Open Overflows on Square Porcelain Pedestals, fitted with Two Nickel-plated Combination Shampoo and Supply Fittings with China Indexed Compression Basin Cocks and Control Valves complete with Rubber Hose and Nickel-plated Sprays and Two Lift Wastes with China Knobs.

Length 48 inches      Width 24 inches      Basin 13½x18½

Price, as described. ....  
 " without Fittings.....

Prices for porcelain lavatories are based on kiln-run ware. An extra charge is made for special selection.

## SOLID PORCELAIN SURGEONS' COMBINATION SINK AND LAVATORY



J-622

Solid Porcelain Surgeon's Combination Sink and Lavatory, Solid Porcelain Legs, Wall Supports, Two Elbow-action Mixing Valves with Controlling Stops, Knee-action Plug Device for Basin, Nickel-plated Standing Waste and Overflow for Sink and Two Nickel-plated Traps. Lavatory is of special selection.

Length 60 inches    Width 25 inches    Sink 16x24x6 inches  
    Basin 14x17 inches

Price, as described.....

If Knee-action Waste for Lavatory is omitted, deduct.....

## SURGEONS' VITREOUS CHINA LAVATORIES



J-624

Vitreous China Surgeon's Lavatory with Vitreous China Legs, Wall Supports, Elbow-action Mixing Valve with Controlling Stops, and Knee-action Waste with Nickel-plated Trap.

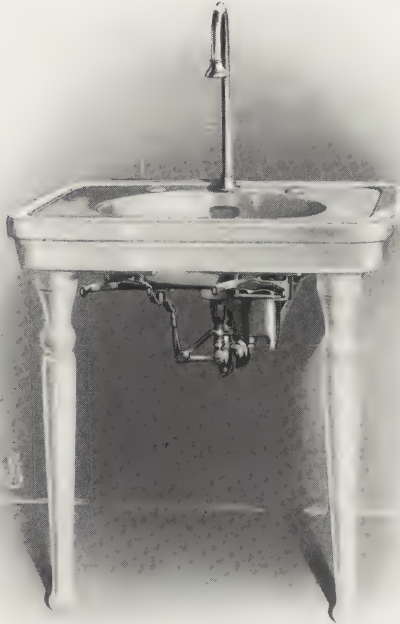
Length, 36 inches   Width 24 inches   Basin 13x17 inches

Price, as described.....  
 If Knee-Action Plug device is omitted, deduct.....

Hot and Cold Water Valves in Knee-action instead of Elbow-action, can be furnished when desired.



## SURGEONS' VITREOUS CHINA LAVATORIES



J-626

Vitreous China Surgeon's Lavatory with Vitreous China Legs, Wall Supports, Knee-action Hot and Cold Water Valves, Nickel-plated Supply Pipes to Wall with Stops, Goose-neck with Removable Spray and Jet Nozzle, Knee-action Plug and Trap.

Length 30 inches      Width 24 inches      Basin 14x20 inches

Price, as described.....

This lavatory may be furnished with other styles of fittings, hand or foot-operated.

## SURGEONS' VITREOUS CHINA LAVATORIES



J-628

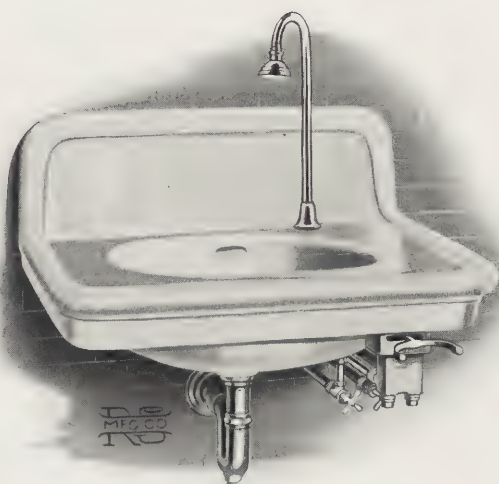
Vitreous China Surgeon's Lavatory with Vitreous China Legs, Wall Supports. Goose-neck with Removable Jet Nozzle and Spray. Nickel-plated Fuller Combination Hot and Cold Water Valves with China Handles, Nickel-plated Supply Pipes to Wall with Stops, Nickel-plated Trap and Nickel-plated Combination Pedal-action Supply and Waste Valves concealed in Floor.

Length 30 inches      Width 24 inches      Basin 14x20 inches

Price, as described.....

This lavatory may be furnished with other styles of fittings, hand or knee-operated.

## SURGEONS' VITREOUS CHINA LAVATORIES



J-630

Vitreous China Surgeons' Lavatory on Concealed Hanger with Nickel-plated Small Wall Supports, Knee Action Hot and Cold Valves, Nickel-plated Supply Pipes to Wall with Stops, Goose Neck with Removable Spray and Nickel-plated P Trap.

Length, 24 inches    Width, 21 inches    Basin 12x16 inches

Price, as described .....

This lavatory can be furnished with knee acting plug device if so ordered.

## VITREOUS CHINA MANICURING TABLES



J-632

Vitreous China Manicuring Table with Basin, Integral Supply and Hooded Overflow, Supported on Vitreous China Leg and Rod and Nickel-plated Brass Wall Brackets. Fitted with Compression Supply Valves with China Four-arm Handles and Escutcheons and Nickel-plated Pop-up Waste with China Knob and Escutcheons, Supplies and Trap.

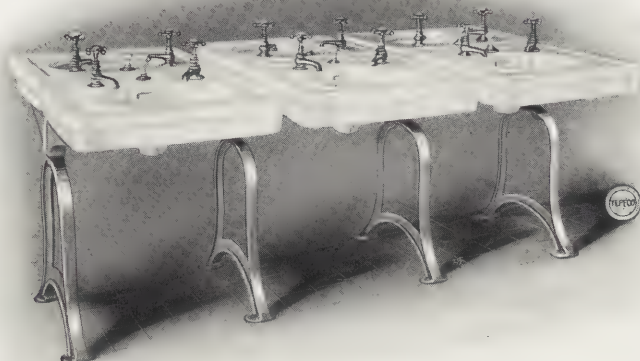
Size 18x32 inches    Basin 6 inches

Price, as described. ....

This table is a distinct improvement over that having a center bowl in that the operating fixtures are convenient and are not in the way of the user. With the Madadore Table the operating fixtures are accessible to the manicurist from either side. All operating parts are on top of slab.



## VITREOUS CHINA LAVATORIES IN BATTERIES



J-634

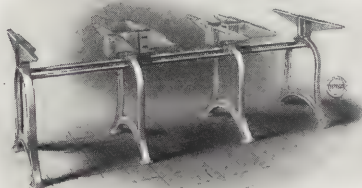
Double Battery of Vitreous China Lavatories with D Pattern Bowl, Anti-splash Rim Improved Sanitary Open Overflow, Patented Iron Frame Aluminum Painted, Nickel-plated Brass Compression Faucets with China Index Handles, Lift Waste with China Knob.

Slab 18x20 inches  
Slab 21x24 inches

Basin 11x14 inches  
Basin 12x16 inches

Size .....	inches	18x20	21x24
Price, as described .....			

Specifications for traps and waste to be added according to the installation required.  
Waste pipe and trap extra.



Frames are furnished aluminum painted. The simplicity of construction and few parts permits quick and rigid assembling of the frame. Ample adjustment is provided for setting the fixtures as far apart as conditions may require.

# VITREOUS CHINA LAVATORIES

## IN BATTERIES

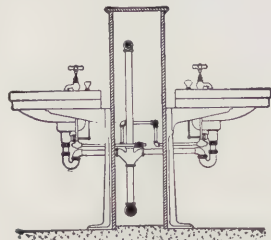


J-636

Battery of Vitreous China Lavatories with Integral Back, D Pattern Bowl, Anti-splash Rim, Improved Sanitary Open Overflow, Patented Iron Frame Aluminum Painted, Nickel-plated Brass Compression Cocks with China Index Handles, Nickel-plated Brass Ball Chain and Chain Stay, Plug and Coupling, 3/8-inch Nickel-plated Iron Pipe Size Supply Pipes to Wall, Angle Shut-off Valves, 1 1/4-inch Nickel-plated Cast Brass P Trap.

Slab 18x20 inches	Basin 11x14 inches	Back 6 inches
Slab 21x24 inches	Basin 12x16 inches	Back 7 inches

Size.....	inches	18x20	21x24
Price, as described .....			



These lavatories are often set in double batteries back to back with slate or marble partitions having a hollow pipe chamber with covered top and ends. The illustration herewith is a suggestion for such an installation.

## PORCELAIN LAVATORIES

### IN BATTERIES



J-638

Battery of Single Barracks Porcelain Lavatories, with Improved Sanitary Open Overflow and Integral Soap Dish, Patented Iron Frame with Pipe Rack Aluminum Painted, Industrial Combination Supply Fitting with Spray Regulator, Nickel-plated Brass Ball Chain and Chain Stay, Plug and Coupling.

Lavatory 18x21 inches    Basin 13½x16½ inches

Price, as described, Each Double Section . . . . .

Waste pipe and traps extra.

All prices on porcelain lavatories are based on kiln run ware and extra charge will be made for special selection.

## PORCELAIN LAVATORIES IN BATTERIES



J-640

Battery of Porcelain Barracks Lavatories with Improved Sanitary Open Overflow and Integral Soap Dish, Iron Leg with Bracket Frame to Wall Aluminum Painted, Industrial Combination Gooseneck Supply Fitting with Spray Regulator, Nickel-plated Brass Ball Chain and Chain Stay, Plug and Coupling, 1¼-inch Nickel-plated Cast Brass P Trap.

Slab 18x21 inches    Basin 16½x13½ inches

Price, as described. . . . .

These lavatories can be furnished single as illustrated. They are ideal for factory use and heavily constructed.

Price, Single Lavatory . . . . .

All prices on porcelain lavatories are based on kiln run ware and extra charge will be made for special selection.

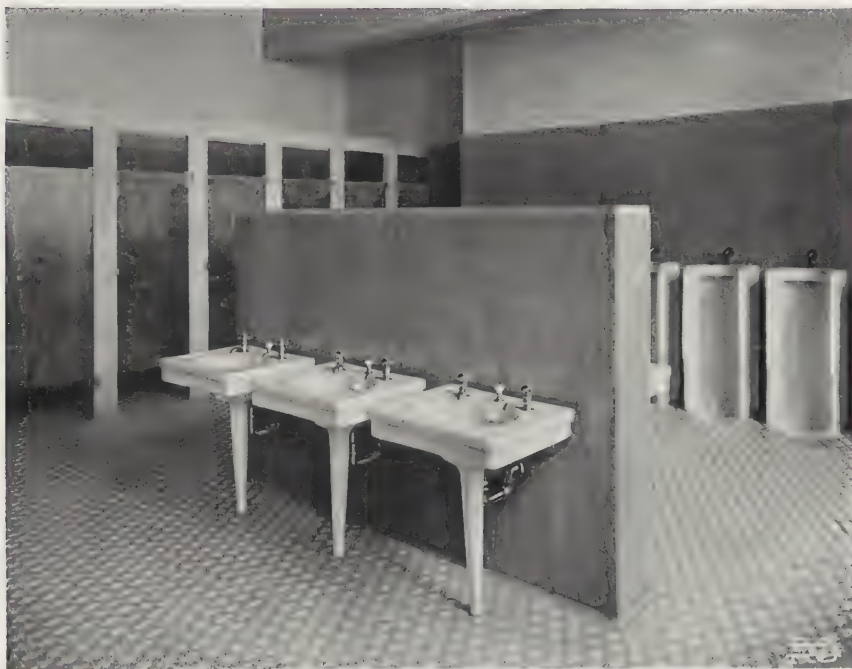


J-642



## VITREOUS CHINA LAVATORIES

### IN BATTERIES



J-644

Vitreous China all Roll Rim Lavatories with Patent Overflow Basin, Vitreous China Legs, Wall Supports, Lift Wastes with China Knob, Self-closing Ball Bearing Nickel-plated Basin Cocks, Nickel-plated Supply Pipes to Wall with Compression Stops, Nickel-plated Traps.

Slab 21x24 inches Basin 12x16 inches

Price as Described. ....

Box shown above which is of Tennessee marble can be furnished in any height and in slate or tile as desired. The box conceals the supply and waste pipes.

## WASH FOUNTAINS

PATENTED JULY 26, '21; FEB. 7, '22. OTHER PATENTS PENDING



J-646

A sanitary wash fixture for industrial, school and public lavatories. This wash fountain is designed to provide a shower bath for the hands and face. Each person uses clean, fresh water—the flow of which is easily adjusted and fixed—just like washing in a clear, crystal stream.

As fast as the water is used it drains off the smooth surface of the fountain carrying with it all dirt and soap suds, leaving the fountain clean, thus eliminating unsanitary and unhealthy conditions.

Because of the circular shape of the fountain there is more elbow room and access to the fountain is easy. Consequently more people can wash in the fountain during a given time than is possible with any other style of fixture.

Each fountain has only one water inlet and one large open drain.

The water pipe of the 54-inch fountain is no larger than the pipe used in connection with the ordinary individual bowl. The water is broken up into fine streams and only what is needed is used, thus there is a saving of water. Water used under pressure, or in full stream is very wasteful.

The tempering of the water is mechanically controlled so no hot water is wasted—an important factor in the saving of coal.

These fountains are made in two grades—Marmorite and Granito.

The Marmorite Fountains are made of a water-proof composition consisting of 85 per cent marble, moulded with special cement and polished and practically approximates highly finished marble. These fountains are virtually indestructible, and because of their attractiveness, greatly improve the appearance of lavatory rooms where they are in use.

The Granito Fountains are also made of a water-proof composition but without marble. These fountains have a perfectly smooth surface and are just as efficient, but lack some of the attractiveness of the Marmorite product.

Furnished with liquid soap containers, or with trays for cake soap. Made in 2 sizes: 54-inch diameter for 12 persons; 32-inch diameter for 6 persons.

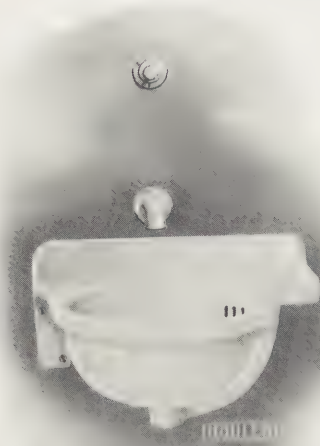


J-648

Size.....	inches	32	54
Price, Marmorite Fountain Only.....		160.00	275.00
“ Granito “ “.....		120.00	200.00
For Liquid Soap Containers, add.....		25.00	30.00
“ Combination Liquid Soap Containers, and Cake Soap Holders.....		35.00	40.00
“ Aluminum Trays for Cake Soap, add.....		7.50	10.00

## PRISON LAVATORIES

### ENAMELED IRON PRISON LAVATORIES

**J-650**

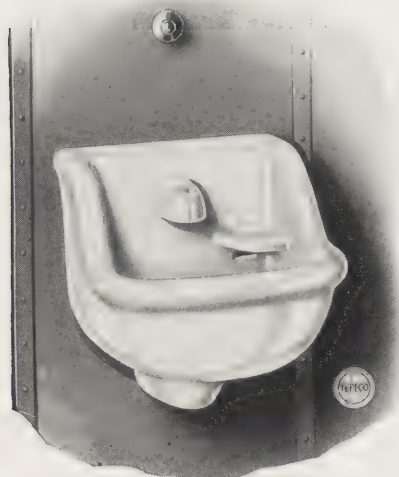
The Chillon Enameled All Over Iron Prison Lavatory, Patent Overflows, Depressed Soap Dish on either Right or Left Hand Side, fitted with Nickel-plated Supply Spout and Concealed Push Button Supply Valve. Outlet of Bowl threaded for 1-inch Pipe.

Length of Back 17 inches  
 Height of Back 3 inches

Wall to Front 11½ inches  
 Size Rear Outlet Basin 10½x12 inches

Price, as described.....  
 " Enameled Inside with Fittings as described.....

Specify when ordering whether soap dish is desired on right or left hand side.

**J-652**

### VITREOUS CHINA PRISON LAVATORIES

Vitreous China Prison Lavatory with Integral Back, Combination Supply and Drinking Nozzle, Soap Dish and Open Overflow on Concealed Clip Hangers; Non-removable Lift Plug Waste and Concealed Outlet Connection for 1¼-inch I. P., Self-closing Push Button Valve for ¾-inch I. P. and Connections.

Size 14x13 inches      Back 5 inches

Price, as described.....

The bowl is fitted with a special non-removable plug and altogether so arranged that the prisoner cannot obtain implements to injure himself or others.



ENAMELED IRON LAVATORIES



J-732



J-734

J-732

Enameled Iron Pedestal Lavatory with Slab, D Pattern Basin with Rear Outlet and Apron all in one piece, Enameled Iron Pedestal, Nickel-plated Compression Combination Supply and Secret Waste Fitting with China Cross Handles, China Knob on Waste and China Escutcheons, 3⁄8-inch Supply Pipes to Wall with China Indexed Stops and 1¼-inch Nickel-plated P Trap.

Slab 20x28 inches	Basin 12x15 inches	Apron 4½ inches
Slab 24x34 inches	Basin 14x18 inches	Apron 4½ inches

Sizes.....	inches	20x28	24x34
Price, as described.....		.....	.....
“ without Fittings.....		.....	.....

J-734

Enameled Iron Pedestal Lavatory with Slab, D Pattern Basin with Patent Overflow, Rear Outlet and Apron all in one piece, Enameled Iron Pedestal, Nickel-plated Combination Supply and Lift Waste Fitting with Compression Valves, China Cross Handles, China Knob and China Escutcheons, 3⁄8-inch Supply Pipes to Wall with China Indexed Stops and 1¼-inch Nickel-plated P Trap.

Slab 20x28 inches	Basin 12x15 inches	Apron 4½ inches
Slab 24x34 inches	Basin 14x18 inches	Apron 4½ inches

Sizes.....	inches	20x28	24x34
Price, as described.....		.....	.....
“ without Fittings.....		.....	.....

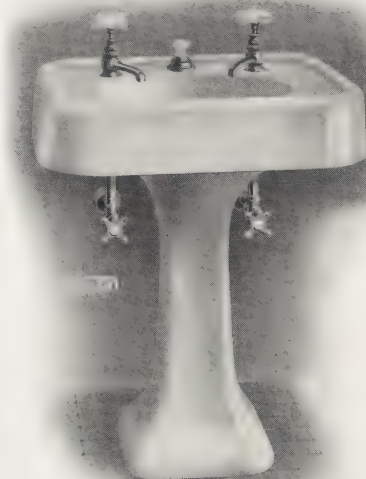
The above lavatories can be furnished with separate cocks and model or lift waste, or with plug and chain.



## ENAMELED IRON LAVATORIES



J-736



J-738

### J-736

Enameled Iron Pedestal Lavatory with Square Slab, D Pattern Basin with Rear Outlet and Apron all in one piece, Enameled Iron Pedestal, Nickel-plated Compression Combination Supply and Secret Waste Fitting with China Cross Handles, China Knob on Waste and China Escutcheons,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall with China Indexed Stops and  $1\frac{1}{4}$ -inch Nickel-plated Offset P Trap.

	Slab 20x24 inches	Basin 12x15 inches	Apron 5 inches		
	Slab 22x27 inches	Basin 14x18 inches	Apron 5 inches		
Size.....	.....inches			20x24	22x27
Price, as described.....	.....			.....	.....
“ without Fittings.....	.....			.....	.....

### J-738

Enameled Iron Pedestal Lavatory with Square Slab, D Pattern Basin with Rear Outlet and Apron all in one piece, Enameled Iron Pedestal, Nickel-plated Compression Faucets with China Cross Handles, Secret Waste with China Knob,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall with China Indexed Stops and  $1\frac{1}{4}$ -inch Nickel-plated Offset P Trap.

	Slab 20x24 inches	Basin 12x15 inches	Apron 5 inches		
	Slab 22x27 inches	Basin 14x18 inches	Apron 5 inches		
Size.....	.....inches			20x24	22x27
Price, as described.....	.....			.....	.....
“ without Fittings.....	.....			.....	.....
Can be furnished with fittings as shown on any other lavatories.					

ENAMELED IRON LAVATORIES



J-740



J-742

J-740

Enameled Iron Pedestal Lavatory with Square Slab, D Pattern Basin with Rear Outlet. Patent Overflow and Apron all in one piece, Enameled Iron Pedestal, Nickel-plated Combination Compression Supply and Lift Waste Fitting with China Cross Handles, China Knob and Escutcheons, 3/8-inch Nickel-plated Supply Pipes to Wall with Stop Valves and 1 1/4-inch Nickel-plated P Trap.

	Slab 20x24 inches	Basin 12x15 inches	Apron 5 inches		
	Slab 22x27 inches	Basin 14x18 inches	Apron 5 inches		
Size.....	.....inches			20x24	22x27
Price, as described.....	.....			.....	.....
“ without Fittings.....	.....			.....	.....

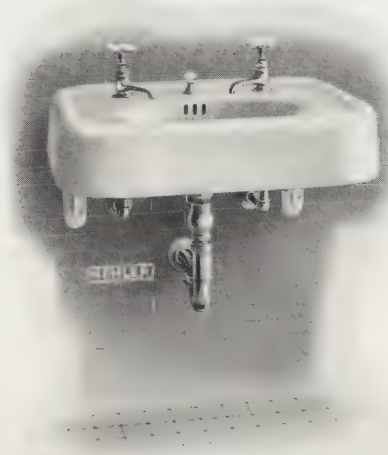
J-742

Enameled Iron Pedestal Lavatory with Square Slab, D Pattern Basin with Rear Outlet. Patent Overflow and Apron all in one piece, Enameled Iron Pedestal, Nickel-plated Compression Faucets with China Cross Handles, Lift Waste with China Knob, 3/8-inch Nickel-plated Supply Pipes to Wall with Stop Valves and 1 1/4-inch Nickel-plated P Trap.

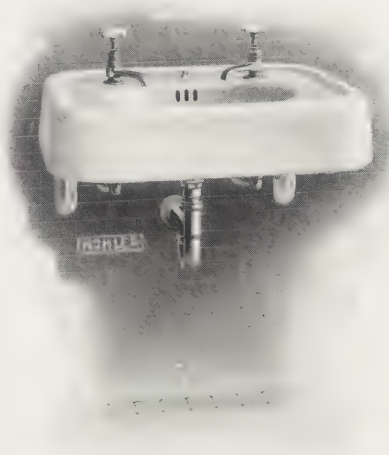
	Slab 20x24 inches	Basin 12x15 inches	Apron 5 inches		
	Slab 22x27 inches	Basin 14x18 inches	Apron 5 inches		
Size.....	.....inches			20x24	22x27
Price, as described.....	.....			.....	.....
“ without Fittings.....	.....			.....	.....

Can be furnished with fittings as shown on any other lavatories.

ENAMELED IRON LAVATORIES



J-744



J-746

J-744

Enameled Iron Lavatory with Slab, D Pattern Basin with Rear Outlet, Patent Overflow and Apron all in one piece, Enameled Iron Wall Brackets, Nickel-plated Compression Faucets with China Cross Handles, Lift Waste with China Knob, 3/8-inch Nickel-plated Supply Pipes to Wall, 1 1/4-inch Nickel-plated P Trap.

	Slab 16x20 inches	Basin 9 1/2 x14 inches	Apron 5 inches	
	Slab 20x24 inches	Basin 12 x15 inches	Apron 5 inches	
	Slab 22x27 inches	Basin 14 x18 inches	Apron 5 inches	
Size.....	.....inches	16x20	20x24	22x27
Price, as described.....	.....	.....	.....	.....
“ without Fittings.....	.....	.....	.....	.....

J-746

Enameled Iron Lavatory with Slab, D Pattern Basin with Rear Outlet, Patent Overflow and Apron all in one piece, Enameled Iron Wall Brackets, Nickel-plated Compression Faucets with China Cross Handles, 3/8-inch Nickel-plated Supply Pipes to Wall, 1 1/4-inch Nickel-plated P Trap Waste Plug and Chain Stay Bolt.

	Slab 16x20 inches	Basin 9 1/2 x14 inches	Apron 5 inches	
	Slab 20x24 inches	Basin 12 x15 inches	Apron 5 inches	
	Slab 22x27 inches	Basin 14 x18 inches	Apron 5 inches	
Size.....	.....inches	16x20	20x24	22x27
Price, as described.....	.....	.....	.....	.....
“ without Fittings.....	.....	.....	.....	.....

Can be furnished with fittings as shown on any other lavatories.

## ENAMELED IRON LAVATORIES



J-748



J-750

### J-748

Enameled Iron Lavatory with Slab, D Pattern Basin with Rear Outlet, Back and Apron all in one piece, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Cross Handles,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall, Secret Waste with China Knob, and a  $1\frac{1}{4}$ -inch Nickel-plated Offset P Trap.

Slab 18x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches
Slab 20x24 inches	Basin 12x15 inches	Back 12 inches	Apron 5 inches
Slab 22x27 inches	Basin 14x18 inches	Back 12 inches	Apron 5 inches

Size.....	inches	18x24	20x24	22x27
Price, as described.....		.....	.....	.....
" without Fittings.....		.....	.....	.....

### J-750

Enameled Iron Lavatory with Slab, D Pattern Basin with Patent Overflow, and Rear Outlet, Back and Apron all in one piece, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Indexed Four-ball Handles,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall,  $1\frac{1}{4}$ -inch Nickel-plated P Trap, Waste Plug and Chain Stay Bolt.

Slab 17x21 inches	Basin 11x14 inches	Back 8 inches	Apron $4\frac{1}{2}$ inches
Slab 18x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches
Slab 20x24 inches	Basin 12x15 inches	Back 12 inches	Apron 5 inches
Slab 22x27 inches	Basin 14x18 inches	Back 12 inches	Apron 5 inches

Size.....	inches	17x21	18x24	20x24	22x27
Price, as described.....		.....	.....	.....	.....
" without Fittings.....		.....	.....	.....	.....

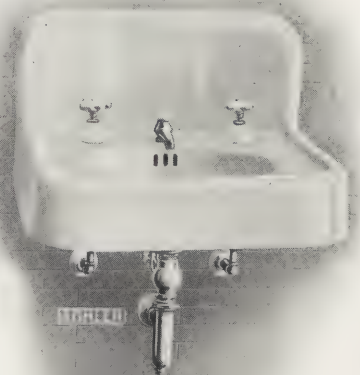
Can be furnished with fittings as shown on any other lavatories except the 17x21-inch lavatory which cannot be furnished with combination fitting and lift waste through slab.



# ENAMELED IRON LAVATORIES



J-752



J-754

## J-752

Enameled Iron Lavatory with Slab, D Pattern Basin with Patent Overflow, and Rear Outlet, Back and Apron all in one piece, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Indexed Four-ball Handles, 3/8-inch Nickel-plated Supply Pipes to Wall, Lift Waste with China Knob, and 1 1/4-inch Nickel-plated P Trap.

Slab 18x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches
Slab 20x24 inches	Basin 12x15 inches	Back 12 inches	Apron 5 inches
Slab 22x27 inches	Basin 14x18 inches	Back 12 inches	Apron 5 inches

Size.....	inches	18x24	20x24	22x27
Price, as described.....		.....	.....	.....
" without Fittings.....		.....	.....	.....

## J-754

Enameled Iron Lavatory with Slab, D Pattern Basin with Patent Overflow and Rear Outlet, Back and Apron all in one piece, Concealed Wall Hanger, Nickel-plated Combination Supply and Lift Waste Fitting with Compression Valves, China Cross Handles and China Escutcheons, 3/8-inch Nickel-plated Supply Pipes to Wall and 1 1/4-inch Nickel-plated P Trap.

Slab 20x24 inches	Basin 12x15 inches	Back 12 inches	Apron 5 inches
Slab 22x27 inches	Basin 14x18 inches	Back 12 inches	Apron 5 inches

Size.....	inches	20x24	22x27
Price, as described.....		.....	.....
" without Fittings.....		.....	.....

ENAMELED IRON LAVATORIES



J-756



J-758

J-756

Enameled Iron Lavatory with Slab, D Pattern Basin with Rear Out let, Back and Apron all in one piece, Concealed Wall Hanger, Nickel-plated Fuller Faucets with China Handles, 3⁄8-inch Nickel-plated Supply Pipes to Wall, Secret Waste with China Knob and 1¼-inch Nickel-plated Offset P Trap.

Slab 18x21 inches	Basin 11x15 inches	Back 8 inches	Apron 4¾ inches
Slab 19x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches

Sizes .....	inches	18x21	19x24
Price, as described .....		.....	.....
“ without Fittings .....		.....	.....

J-758

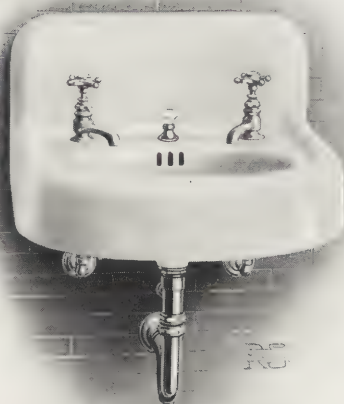
Enameled Iron Lavatory with Slab, D Pattern Basin with Rear Outlet, Soap Dish Cast in Slab Draining into the Patent Overflow, Back and Apron all in one piece, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Indexed Four-ball Handles, 3⁄8-inch Nickel-plated Supply Pipes to Wall, 1¼-inch Nickel-plated P Trap, Waste Plug and Chain Stay Bolt.

Slab 17x19 inches	Basin 11x14 inches	Back 6½ inches	Apron 4¾ inches
Slab 18x21 inches	Basin 11x15 inches	Back 8 inches	Apron 4¾ inches
Slab 19x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches

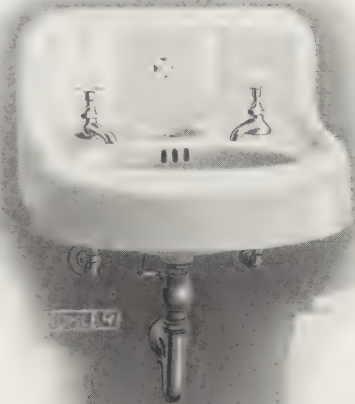
Sizes.....	inches	17x19	18x21	19x24
Price, as described.....		.....	.....	.....
“ without Fittings.....		.....	.....	.....

Can be furnished with fittings as shown on any of the other lavatories except the 17x19-inch Lavatory cannot be furnished with combination fittings or lift waste through slab.

## ENAMELED IRON LAVATORIES



J-760



J-762

### J-760

Enameled Iron Lavatory with Slab, D Pattern Basin with Patent Overflow, Rear Outlet, Back and Apron all in one piece, Nickel-plated Compression Faucets with China Indexed Four-ball Handles, Lift Waste with China Knob,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall, and  $1\frac{1}{4}$ -inch Nickel-plated P Trap.

Slab 18x21 inches	Basin 11x15 inches	Back 8 inches	Apron $4\frac{3}{4}$ inches
Slab 19x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches

Size.....	inches	18x21	19x24
Prices, as described.....	.....	.....	.....
“ without Fittings.....	.....	.....	.....
If Supply Pipes are omitted, Deduct.....	.....	.....	.....

### J-762

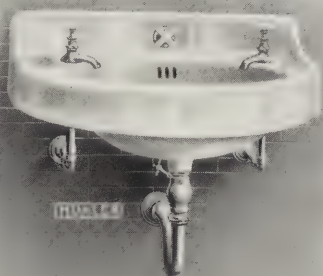
Enameled Iron Lavatory with Slab, D Pattern Basin with Rear Outlet, Soap Dish cast in Slab, draining into the Patent Overflow, Back and Apron all in one piece, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Cross Handles, Lift Waste with China Cross Handle operating through Back,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall and  $1\frac{1}{4}$ -inch Nickel-plated P Trap.

Slab 17x19 inches	Basin 11x14 inches	Back $6\frac{1}{2}$ inches	Apron 4 inches
Slab 18x21 inches	Basin 11x15 inches	Back 8 inches	Apron $4\frac{3}{4}$ inches
Slab 19x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches

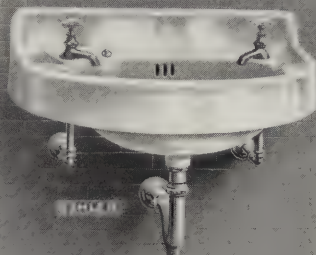
Size.....	inches	17x19	18x21	19x24
Price, as described.....	.....	.....	.....	.....
“ without Fittings.....	.....	.....	.....	.....
If Supply Pipes are omitted, Deduct.....	.....	.....	.....	.....

Can be furnished with fittings as shown on any other lavatories, except 17x19-inch lavatory which cannot be furnished with combination fittings or lift waste through slab.

## ENAMELED IRON LAVATORIES



J-764



J-766

### J-764

Enameled Iron Lavatory with Slab, Basin with Patent Overflow, Back and Apron all in one piece, Depressed Soap Cups in Slab, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Cross Handles, Lift Waste with China Cross Handle through Back,  $\frac{3}{8}$ -in. Nickel-plated Supply Pipes to Wall and  $1\frac{1}{4}$ -inch Nickel-plated P Trap.

Slab 13x26 inches      Basin 10x16 $\frac{1}{2}$  inches      Back 4 inches      Apron 4 inches

Price, as described.....  
" without Fittings.....

### J-766

Enameled Iron Lavatory with Slab, Basin with Patent Overflow, Back and Apron all in one piece, Depressed Soap Cups in Slab, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Cross Handles,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall and  $1\frac{1}{4}$ -inch Nickel-plated P Trap, Waste Plug and Chain Stay Bolt.

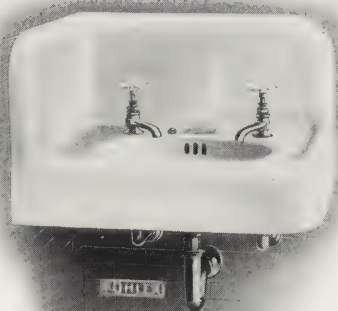
Slab 13x26 inches      Basin 10x16 $\frac{1}{2}$  inches      Back 4 inches      Apron 4 inches

Price, as described.....  
" without Fittings.....

Cannot be furnished with lift waste through slab, secret waste or combination fittings.



## ENAMELED IRON LAVATORIES



J-768



1-770

## J-768

Enameled Iron Corner Lavatory with Slab, D Pattern Basin with Rear Outlet, Enameled Soap Dish Cast in Slab, draining into Patent Overflow, Back, Left-hand End and Apron all in one piece, Concealed Wall Hangers, Nickel-plated Compression Faucets with China Cross Handles,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall, Waste Plug,  $\frac{1}{4}$ -inch P Trap and China Stay Bolt.

	Slab 18x24 inches	Basin 12x15 inches	Back 10 inches	Apron 5 inches		
	Slab 20x24 inches	Basin 12x15 inches	Back 12 inches	Apron 5 inches		
Size.....				inches	18x24	20x24
Price, as described.....					.....	.....
“without Fittings.....					.....	.....

## J-770

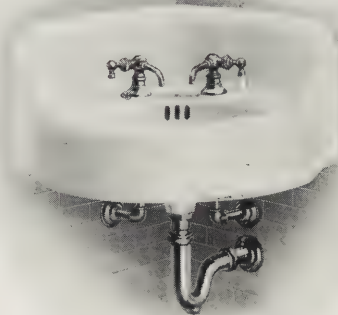
Enameled Iron Recess Lavatory with Slab, D Pattern Basin with Rear Outlet, Enameled Soap Dish Cast in Slab, draining into the Patent Overflow, Back, End Pieces and Apron all in one piece, Concealed Wall Hangers, Nickel-plated Compression Faucets with China Cross Handles,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall, Lift Waste with China Handle for operating through Back, and  $1\frac{1}{4}$ -inch Nickel-plated P Trap.

	Slab 18x24 inches	Basin 12x15 inches	Back 7½ inches	Apron 5 inches		
	Slab 20x24 inches	Basin 12x15 inches	Back 8 inches	Apron 5 inches		
Size.....			inches		18x24	20x24
Price, as described.....						
“ without Fittings.....						

## ENAMELED IRON LAVATORIES



**J-772**



**J-774**

### J-772

Enameled Iron Corner Lavatory with D Pattern Basin with Rear Outlet. Back and Apron all in one piece, Concealed Wall Hangers, Nickel-plated Fuller Faucets with China Handles, Secret Waste with China Knob,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall,  $1\frac{1}{4}$ -inch Nickel-plated Offset P Trap.

Length on Sides $16\frac{1}{2}$ inches	Basin 11x14 inches	Back 6 inches	Apron 5 inches
Length on Sides 19 inches	Basin 11x14 inches	Back 8 inches	Apron 5 inches

Size .....	inches	$16\frac{1}{2}$	19
Price, as described .....		...	...
" without Fittings .....		...	...

### J-774

Enameled Iron Corner Lavatory with Slab, D Pattern Basin with Rear Outlet, Enam-  
eled Soap Dish Cast in Slab, Draining into the Patent Overflow, Back and Apron all in  
one piece, Concealed Wall Hangers, Nickel-plated Fuller Faucets with China Handles,  
 $\frac{3}{8}$ -inch Nickel-plated Supply Pipes to Wall,  $1\frac{1}{4}$ -inch Nickel-plated P Trap, Waste Plug  
and Chain Stay Bolt.

Length on Sides $16\frac{1}{2}$ inches	Basin 11x14 inches	Back 6 inches	Apron 5 inches
Length on Sides 19 inches	Basin 11x14 inches	Back 8 inches	Apron 5 inches

Size .....	inches	$16\frac{1}{2}$	19
Price, as described .....		...	...
" without Fittings .....		...	...

Can be furnished with fittings as shown on any of the other lavatories except combina-  
tion supply and secret waste fittings.

## ENAMELED IRON LAVATORIES



J-776



J-778

### J-776

Enameled Iron Lavatory with Slab, D Pattern Basin with Rear Outlet, Patent Overflow, Depressed Soap Dish and Back all in one piece, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Cross Handles, 1¼-inch Nickel-plated P Trap, Waste Plug and Chain Stay Bolt.

Slab 17x19 inches	Back 6 inches	Bowl 11x14 inches
Slab 18x21 inches	Back 8 inches	Bowl 12x15 inches

Sizes.....	18x21	19x24
Price, as described .....	.....	.....

Can be furnished with fittings shown on any of the other lavatories except the 17x19-inch lavatory cannot be furnished with combination fittings or lift waste through slab.

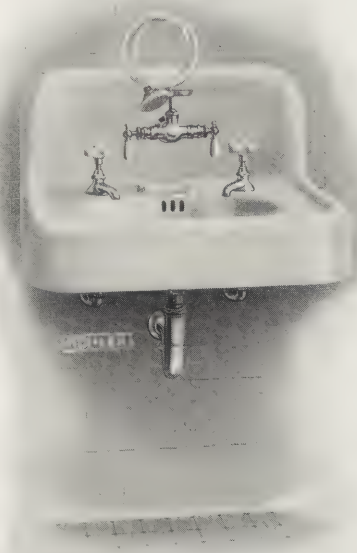
### J-778

Enameled Iron Lavatory with Slab, Round Basin with Center Outlet, Patent Overflow and Back all in one piece, Concealed Wall Hanger, Nickel-plated Compression Faucets with China Indexed Handles, 1¼-inch Nickel-plated P Trap, Waste Plug and Chain Stay Bolt.

Width 14 inches	Basin 12 inches	Back 5 inches
-----------------	-----------------	---------------

Price, as described.....	.....	.....
“ without Fittings.....	.....	.....
Can be furnished with lift waste through back.		

ENAMELED IRON BARBERS' LAVATORIES



J-780

Enameled Iron Barbers' Lavatory with Slab, D Pattern Basin with Rear Outlet, Enam-  
eled Soap Dish in Slab, draining into the  
Patent Overflow, Back and Apron all in one  
piece, fitted with Nickel-plated Quick Acting  
Compression Shampoo Faucet through Back  
with China Handles, Hose and Spray, Nickel-  
plated Compression Basin Faucets with China  
Indexed Four-ball Handles, 3/8- inch Supply  
Pipes to Wall, 1 1/4-inch Nickel-plated P Trap,  
Waste Plug and Chain Stay Bolt.

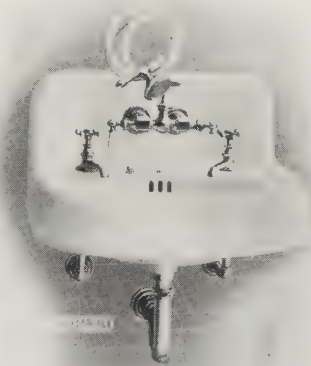
Slab Inches	Basin Inches	Back Inches	Apron Inches
18x21	11x15	8	4 3/4
19x24	12x15	10	5

Size.....inches	18x21	19x24
Price, as described.....	.....	.....
“ without Fittings.....	.....	.....

Enameled Iron Barbers' Lavatory with  
Slab, D Pattern Basin with Rear Outlet,  
Enameled Soap Dish cast in Slab, draining  
into the Patent Overflow, Back and Apron  
all in one piece, fitted with Nickel-plated  
Quick Acting Compression Shampoo Mixing  
Faucet with China Handles, Hose and Spray,  
Nickel-plated Compression Faucets with  
China Cross Handles, 3/8-inch Supply Pipes,  
1 1/4-inch Nickel-plated P Trap, Waste Plug  
and Chain Stay Bolt.

Slab Inches	Basin Inches	Back Inches	Apron Inches
18x24	12x15	10	5
20x24	12x15	12	5
22x27	14x18	12	5

Size.....inches	18x24	20x24	22x27
Price, as described.....	.....	.....	.....
“ without Fittings..	.....	.....	.....



J-782



## ENAMELED IRON BARBERS' LAVATORIES



J-784

Enameled Iron Pedestal Lavatory with Slab, D Pattern Basin with Rear Outlet and Apron all in one piece, Enameled Iron Pedestal, fitted with Nickel-plated Brass Combination Basin Cock and Shampoo Fitting with Compression Stop and Controlling Valves with China Cross Handles, Rubber Hose and Spray, Secret Waste with China Knob,  $\frac{3}{8}$ -inch Supply Pipes to Wall with China Index Stops and  $1\frac{1}{4}$ -inch Nickel-plated Offset P Trap.

Slab Inches	Basin Inches	Apron Inches
20x28	12x15	5
24x34	14x18	5

Size.....inches	20x28	24x34
Price, as described .....	.....	.....
" without Fittings. ....	.....	.....

Can be furnished with fittings shown on any other lavatories.

Enameled Iron Pedestal Lavatory with Square Slab, D Pattern Basin with Rear Outlet, Patent Overflow and Apron all in one piece, Enameled Iron Pedestal, fitted with Nickel-plated Fuller Combination Basin and Shampoo Cock with Compression Base and China Cross Handles,  $\frac{3}{8}$ -inch Nickel-plated Supply Pipes with China Indexed Stops,  $1\frac{1}{4}$ -inch Nickel-plated P Trap, Waste Plug and Chain Stay.

Slab Inches	Basin Inches	Apron Inches
20x24	12x15	5
22x27	14x18	5

Size.....inches	20x24	22x27
Price, as described .....	.....	.....
" without Fittings. ....	.....	.....

Can be furnished with fittings shown on any other lavatories.



J-786

ENAMELED IRON BARBERS' LAVATORIES



J-788

J-788

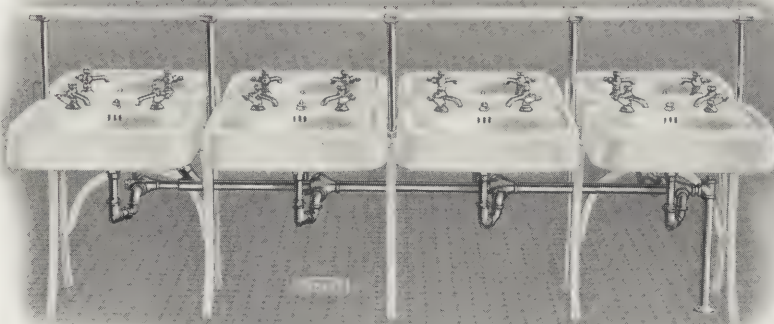
Enameled Iron Two-bowl Barber's Lavatory, with Slab, Rear Outlet Bowls and Apron all in one piece, Enomeled Iron Pedestals, fitted with Nickel-plated Compression Faucets with China Indexed Four-ball Handles, Fuller Double Shampoo Faucet with China Handles, Rubber Hose and Sprinkler, Nickel-plated Supply Pipes with Stops, Secret Wastes with China Knob and 1¼ Nickel-plated Offset P Traps.

Slab 26x46 inches    Bowls 14x18 inches

Price, as described.....	.....
“    without Fittings.....	.....

## ENAMELED IRON LAVATORIES

### IN BATTERIES



J-790

Battery of Eight (Four Double Sections) Enameled Iron Square Lavatories, each Slab with D Pattern Basin, Rear Outlet, Patent Overflow and Apron all in one piece, Set on Painted Iron Brackets to Floor; Fitted with Opaline Glass Towel Shelf on Nickel-plated Brass Supports, Nickel-plated Self-closing Faucets with China Handles and China Indexes, Chain Stay Bolts, Special Waste Plugs,  $1\frac{1}{4}$ -inch Adjustable P Traps, 2-inch Nickel-plated Continuous Waste Pipe with Vent Connection.

Pipe and Fittings shown in outline only, are not regularly furnished.

Slabs 16x20 inches	Basin $9\frac{1}{2}$ x14 inches	Aprons 5 inches
Slabs 20x24 inches	Basin 12x15 inches	Aprons 5 inches
Space between Lavatories at Rear, 1 inch.	Space between Lavatories at Sides $1\frac{1}{4}$ inch.	

Size.....	inches	16x20	20x24
Price, as described.....			
" with Towel Shelf and Chain Stay Bolts only.....			
" Lavatories and Brackets only, for Fittings Shown.....			

Supply pipes extra.

Can be furnished in double sections of one or more, and with fittings as shown through slab on any of our other lavatories.

## ENAMELED IRON LAVATORIES

### IN BATTERIES



J-792

Battery of Enameled Iron One-piece Lavatories with Patent Overflow Basin on Concealed Hanger, Nickel-plated Fuller Basin Cocks, Short Nickel-plated Supply Pipes with Compression Stops and Nickel-plated P Traps to Wall, Chain Stay, Chain and Rubber Stoppers.

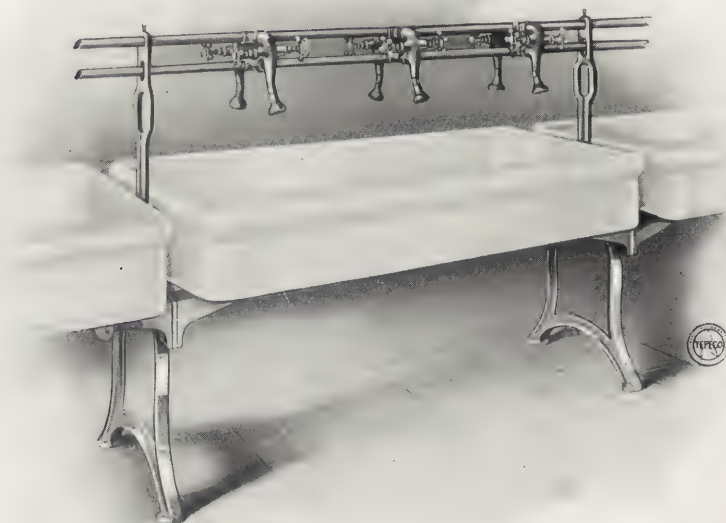
Slab 17x19 inches	Back 6½ inches	Basin 11x14 inches
Slab 18x21 inches	Back 8 inches	Basin 11x14 inches
Slab 19x24 inches	Back 10 inches	Basin 12x15 inches

Size.....inches	17x19	18x21	19x24
Price, as described.....			

Box shown above which is of slate can be furnished in any height and in marble or tile as desired.



## PORCELAIN WASH SINKS



J-900

Porcelain Wash Sink on Patented Iron Frame Aluminum Painted, Six Industrial Combination Supply Fittings with Spray Regulators, Nickel-plated Brass Open Strainer and Coupling.

Size . . . . .	inches	30x36	30x48	30x60
Price, as described . . . . .		.....	.....	.....

Extra for Traps and Waste Pipe.

If desired these supply fittings may be furnished without spray regulator. Other styles of faucets may be furnished if desired.

All prices on porcelain sinks are based on kiln run ware and extra charge will be made for special selection.

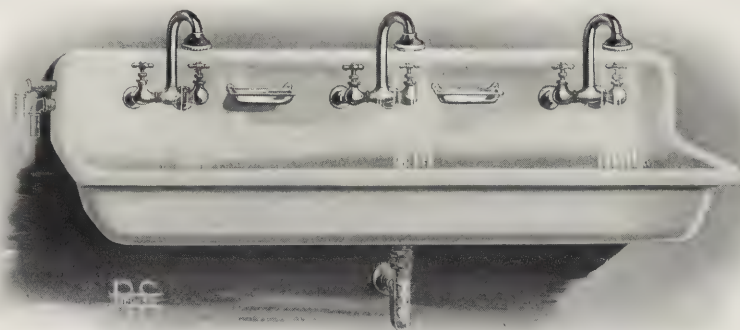
## ENAMELED IRON WASH SINKS



**J-902**

Enameled Iron Roll Rim Wash Sink with Integral Back, Painted One Coat Outside, Concealed Hanger, Nickel-plated Brass Soap Dish, Nickel-plated Compression Bibbs, Nickel-plated Beehive Strainer and Coupling with Tail Piece and Galvanized P Trap.

	Width Outside, 18 inches	Width Inside, 13¼ inches	Back 8 inches	
Length.....inches	36	48	60	72
Number of Faucets.....	2	2	3	3
Number of Soap Dishes.....	1	1	2	2
Price, as described.....	.....	.....	.....	.....
“ without Fittings.....	.....	.....	.....	.....

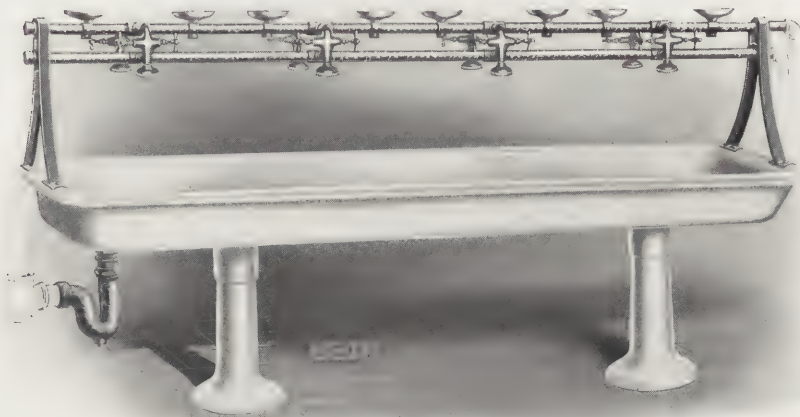


**J-904**

Enameled Iron Roll Rim Wash Sink with Integral Back, Painted One Coat Outside, Concealed Hanger, Nickel-plated Brass Soap Dishes, Galvanized Iron Concealed Supply Pipes, Nickel-plated Rough Brass Compression Mixing Faucets with Goosenecks and Detachable Face Spray Heads, Nickel-plated Brass Beehive Strainer and Galvanized P Trap.

	Width Outside, 18 inches	Width Inside, 13¼ inches	Back 8 inches	
Length.....inches	36	48	60	72
Number of Faucets.....	2	2	3	3
Number of Soap Dishes.....	1	1	2	2
Price, as described.....	.....	.....	.....	.....
“ without Fittings.....	.....	.....	.....	.....

## ENAMELED IRON WASH SINKS

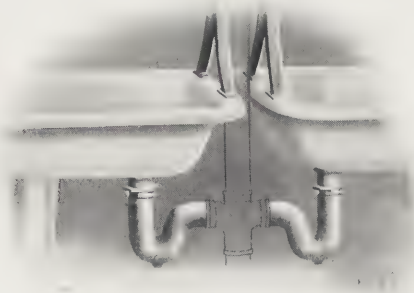


J-906

Enameled Iron Roll Wash Sink on Enameled Adjustable Pedestals, Exterior of Sink Painted One Coat, Galvanized Iron Hot and Cold Supply Pipes over Sink with Nickel-plated Rough Brass Compression Mixing Faucets with Detachable Face Spray Heads, Enameled Soap Dishes, Beehive Strainer and 2-inch Galvanized P Trap.

Width Over Rim, 30 inches      Width Inside, 26 inches  
Depth Inside at Outlet, 8 inches

Length.....	inches	48	60	76	84	96
Number of Faucets and Soap Dishes.....		4	6	6	8	8
Size of Supply Pipes.....	inches	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1
Price, as described.....		....	....	....	....	....

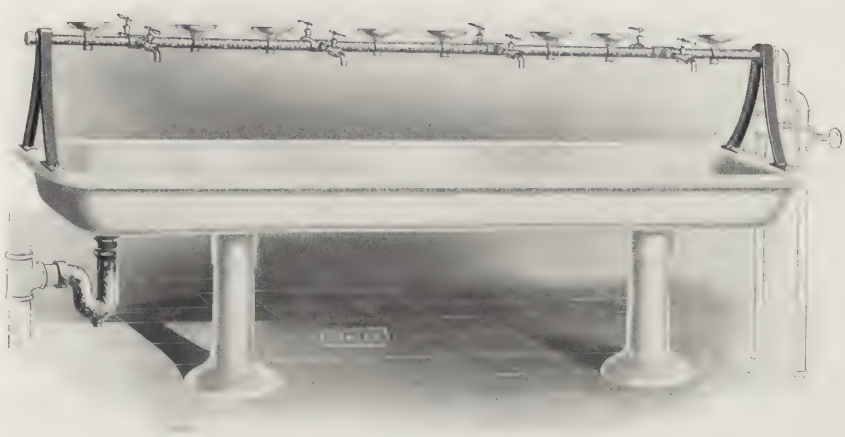


J-908

J-908

Illustration herewith shows wash sinks end to end joined into one waste and vent.

ENAMELED IRON WASH SINKS



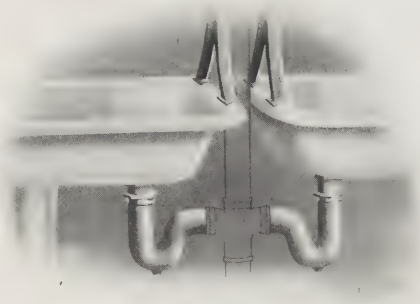
J-910

Enameled Iron Roll Rim Wash Sink on Enameled Adjustable Pedestals, Exterior of Sink Painted One Coat, Galvanized Iron Supply Pipe over Sink with 1/2-inch Compression Bibbs, Enameled Soap Dishes, Beehive Strainer and 2-inch Galvanized P Trap.

Width Over Rim, 30 inches      Width Inside, 26 inches  
Depth inside at Outlet, 8 inches

Length.....	inches	48	60	72	84	96
Number of Faucets and Soap Dishes.....		4	6	6	8	8
Size of Supply Pipes.....	inches	3/4	3/4	3/4	1	1
Price, as described.....						

We do not regularly furnish the vertical galvanized supply pipes or valves as shown in outline.



J-912

Illustration herewith shows sinks end to end joined into one waste and vent.

J-912

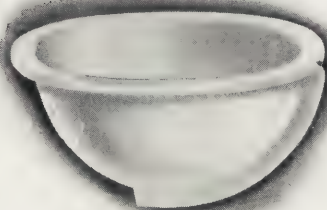


## WASH BASINS

FOR METAL PLUG

### EARTHENWARE ROUND BASINS

PATENT OVERFLOW



J-914

Outside Diam. inches	12	13	14
Price . . . . . each	2.50	2.50	2.50

### EARTHENWARE OVAL BASINS

PATENT OVERFLOW



J-916

Outside Dimensions . . in.	14x17	15x19
Price . . . . . each	6.00	8.00

### EARTHENWARE OVAL BASINS

NO OVERFLOW



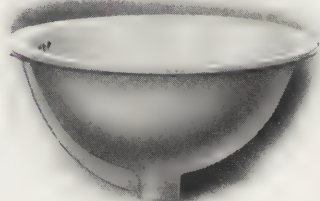
J-918

Outside Dimensions . . in.	14x17	15x19
Price . . . . . each	5.00	7.00

Plugs and couplings for above basins are extra.

### ENAMELED IRON ROUND BASINS

PATENT OVERFLOW



J-920

Outside Diam. . . inches	12	14	16
Price, Enam. Inside. ea.	4.00	4.50	6.00
" " All Over. "	6.00	6.50	8.00

### ENAMELED IRON OVAL BASINS

PATENT OVERFLOW



J-922

Outside Dimensions . inches	14x17	15x19
Price, Enam. Inside. . . each	6.00	6.50
" " All Over. "	8.00	8.50

### ENAMELED IRON OVAL BASINS

NO OVERFLOW



J-924

Outside Dimensions . inches	14x17	15x19
Price, Enam. Inside. . . each	5.00	6.00
" " All Over. "	7.00	8.00

Plugs and couplings for above basins are extra.

**COMBINATION SUPPLY AND LIFT WASTE  
FITTINGS**  
**WITH ALL CHINA HANDLES AND ESCUTCHEONS**



**J-984**

Combination Supply and Lift Waste Fitting with Compression Valves, China Cross Handles, China Escutcheons and China Waste Knob.  
Price .....each .....

**WITH CHINA INDEXED HANDLES AND BRASS ESCUTCHEONS**



**J-986**

Combination Supply and Lift Waste Fitting with Compression Valves, Nickel-plated Brass Handles with China Indexes, Nickel-plated Brass Escutcheons and China Waste Knob.  
Price ....each .....

The valves on the above fittings are so constructed that seat washers may be replaced without removing valve bodies.

## COMBINATION SUPPLY AND WASTE FITTINGS

### COMBINATION SUPPLY AND LIFT WASTE FITTING WITH FULLER VALVES



J-988

Combination Supply and Lift Waste Fitting with Fuller Valves, China Handles, China Indexes, China Escutcheons and China Waste Knob.

Price.....each ....

### COMBINATION SUPPLY AND MODEL WASTE FITTING WITH COMPRESSION VALVES



J-990

Combination Supply and Model Waste Fitting with Compression Valves, China Cross Handles, China Escutcheons and China Waste Knob.

Price.....each ....

# COMBINATION SUPPLY AND LIFT WASTE FITTINGS

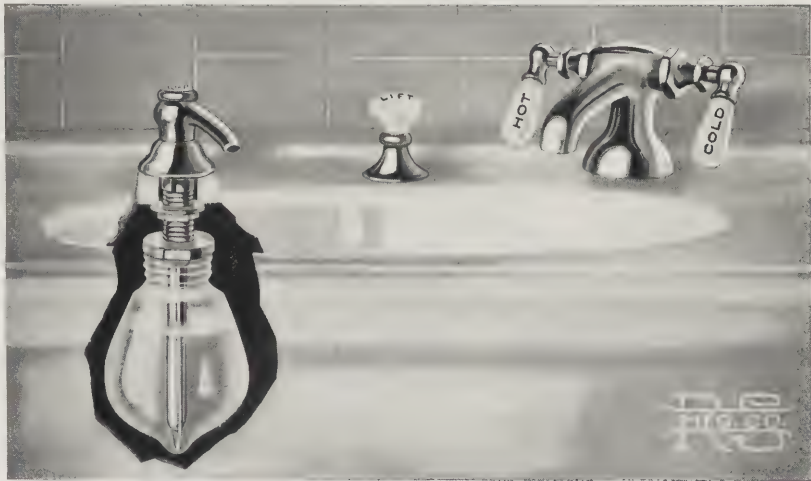
WITH ALL CHINA HANDLES, CHINA ESCUTCHEONS AND CHINA SPOUT



J-992

Combination Supply and Lift Waste Fittings with Compression Valves, China Cross Handles, China Escutcheons, China Waste Knob, China Spout Covering Rough Brass Spout.  
 Price, as described.....

## COMBINATION FITTING WITH LIQUID SOAP CONTAINER



J-994

Combination Quick-Presson Double Basin Faucet with China Lever Handles, Concealed Liquid Soap Container and Lift Waste with China Knob.  
 Price, as described.....



## LAVATORY WASTES AND TRAPS

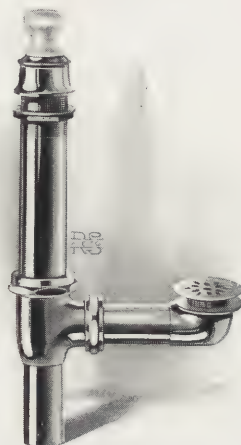
### LIFT WASTE WITH CHINA KNOB



J-996

Nickel-plated Lift Waste with China Knob.  
Price.....each .....

### MODEL WASTE WITH CHINA KNOB

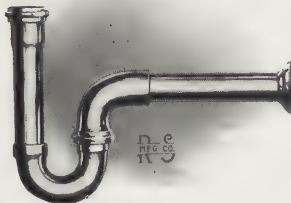


J-1000

Nickel-plated Model Lavatory Waste with China Knob.  
Price.....each .....

### S TRAPS

#### P TRAPS



J-998

Size.....inches 1 1/4 1 1/2  
Price.....each .....

If with Cleanout Screw,  
add.....each .....



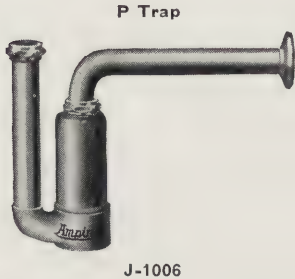
J-1002

Size.....inches 1 1/4 1 1/2  
Price.....each .....

If with Vent, add.....each .....

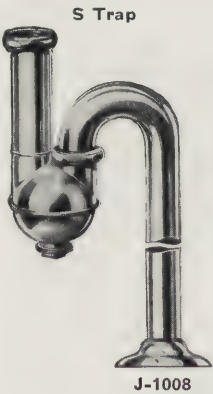
BRASS TRAPS

ANTI-SYPHON TRAPS



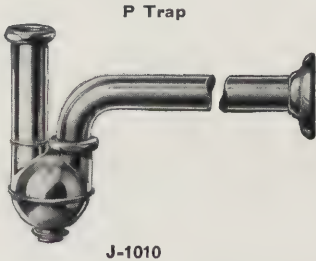
Size.....	inches	1¼	1½
Price, S Traps, Nickel-plated.....	each	.....	.....
“ P “ “ “ “ “	“	.....	.....

FEMCO DEEP SEAL ANTI-SYPHON TRAPS



The body of the Femco Trap is made of heavy drawn brass joined in the center by a solderless water-tight joint.

The inlet is a continuous tube inserted to a point considerably below the center line, the outlet projection extending only to a point where it joins the body.

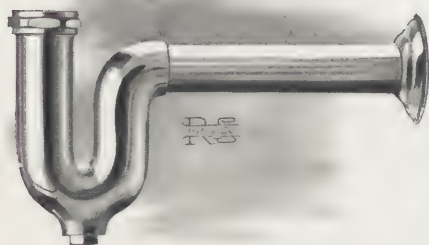


When conditions are such that syphonic action takes place, all the water is drawn out of the inlet tube without materially disturbing the water level in the body; as soon as the water in the inlet tube reaches the bottom of the tube, a sufficient amount of air is admitted to break the syphon, whereupon the water in the outlet tube and that in the body finds a level, submerging inlet tube and forming a seal, which cannot be broken.

Size.....	inches	1¼	1½
Price, Nickel-plated Full S without Vent.....	each	.....	.....
“ “ Half S “ “ “ “	“	.....	.....

## CAST BRASS TRAPS

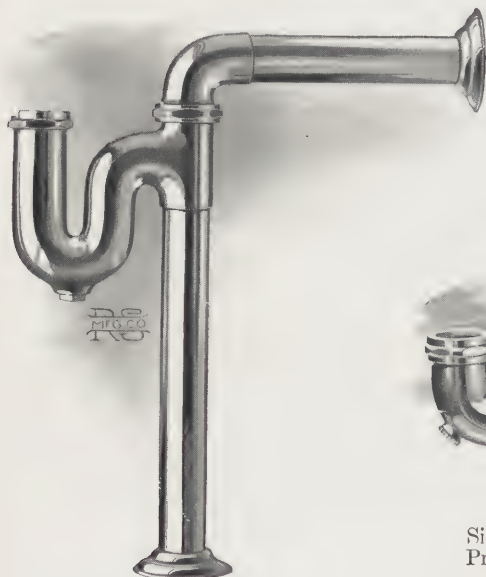
### CAST BRASS P TRAPS



J-1012

Size.....inches  $1\frac{1}{4}$   $1\frac{1}{2}$  2  
 Price, Nickel-plated.....each .....

### CAST BRASS S TRAPS WITH VENT



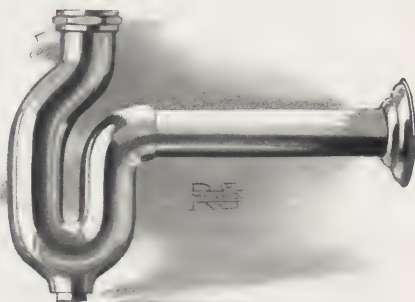
J-1014

Size.....inches  $1\frac{1}{4}$   $1\frac{1}{2}$  2  
 Price, Nickel-plated.....each .....

### WITHOUT VENT

Size.....inches  $1\frac{1}{4}$   $1\frac{1}{2}$  2  
 Price, Nickel-plated.....each .....

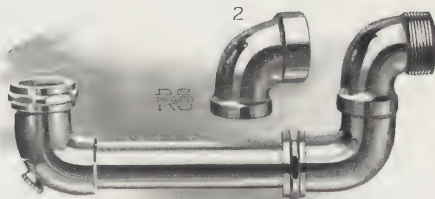
### CAST BRASS OFFSET P TRAPS



J-1016

Size.....inches  $1\frac{1}{4}$   $1\frac{1}{2}$   
 Price, Nickel-plated.....each ....

### MILWAUKEE TRAPS



J-1018

Size.....inches  $1\frac{1}{4}$   $1\frac{1}{2}$   
 Price, Nickel-plated.....each ....

Milwaukee Traps are usually furnished with male thread outlet elbow as shown, but can be furnished with No. 2 elbow having female thread at same price.  $1\frac{1}{2}$ -inch Milwaukee Traps carried in stock in rough dip nickel finish but can be furnished polished and nickel-plated to order.

## LAVATORY SUPPLY PIPES AND CONNECTIONS

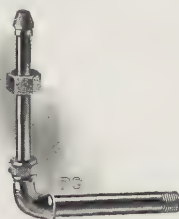
### LAVATORY SUPPLY PIPES TO WALL

With Slip Joint



**J-1020**

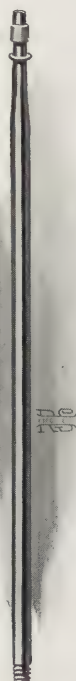
With Coupling



**J-1022**

Size.....	inches	$\frac{3}{8}$
Price, with Slip Joint.....	per pair	.....
“ “ Coupling.....	“	.....

**TO FLOOR  
With Slip Joint**



**J-1024**



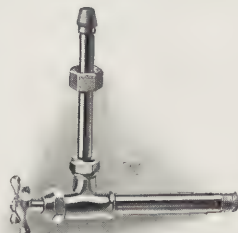
**J-1026**



**J-1028**

Size.....	inches	$\frac{3}{8}$
Price, Fig. J-1024, Plain.....	per pair	.....
“ “ J-1024, with Stop.....	“	.....
“ “ J-1026, Plain.....	“	.....
“ “ J-1028, with Stop.....	“	.....

### LAVATORY SUPPLY PIPES WITH STOP, TO WALL



**J-1030**

Size.....	inches	$\frac{3}{8}$
Price.....	per pair	.....

### SLIP JOINT CONNECTIONS

Straight



**J-1032**

Angle



**J-1034**

For  $\frac{3}{8}$ -inch I. P. and  $\frac{7}{16}$ -inch O.D. slip joint.

		Rgh.	Pol.
Price, Straight.....	per dozen	N.P.	N.P.
“ Angle.....	“	.....	.....

### SLIP JOINT COUPLINGS



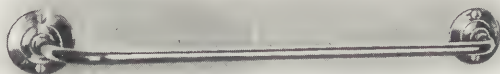
**J-1036**

I. P. Thread Inches	Slip Joint I. P. Size Inches	Price, N. P. per Dozen
$\frac{3}{8}$	$\frac{3}{8}$	.....
$\frac{1}{2}$	$\frac{3}{8}$	.....
$\frac{1}{2}$	$\frac{1}{2}$	.....
$\frac{3}{4}$	$\frac{1}{2}$	.....



## BATH ROOM FURNISHINGS

### NICKEL-PLATED BRASS TOWEL BARS



J-1096

Length.....	inches	18	24	30	36
Price, 1/2-inch Bar.....	each	....	....	....	....

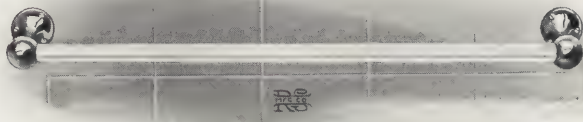
### NICKEL-PLATED TOWEL BARS WITH SWING ARMS



J-1098

Length.....	inches	8	8	8
No. of Arms.....		1	2	3
Price.....	each	....	....	....

### GLASS TOWEL BARS 1-INCH OPAL BAR WITH NICKEL-PLATED BRASS POSTS



J-1100

Length.....	inches	18	24	30	36
Price.....	each	....	....	....	....

### BATH TUB HAND RAILS WITH 1/4-INCH NICKEL-PLATED BRASS RAILS



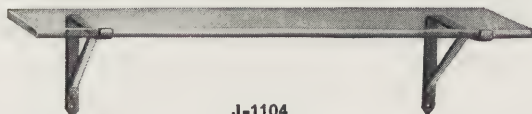
J-1102

Length.....	inches	12	18	24
Price.....	each	....	....	....

## BATH ROOM FURNISHINGS

### GLASS SHELVES

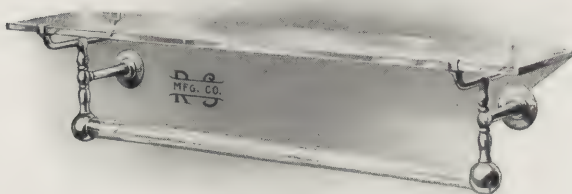
#### WITH NICKEL-PLATED STAMPED BRASS BRACKETS



J-1104

Size Shelves.....	inches	5x18	5x24
Price, $\frac{3}{16}$ -inch Crystal.....	each	....	....

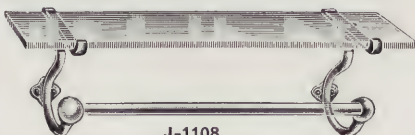
#### WITH 1-INCH GLASS BAR AND NICKEL-PLATED CAST BRASS BRACKETS



J-1106

Size Shelves.....	inches	6x24	6x30
Thickness.....	"	$\frac{3}{8}$	$\frac{3}{8}$
Price, Crystal.....	each	....	....
" Opal.....	"	....	....

#### WITH $\frac{5}{8}$ -INCH GLASS BAR AND NICKEL-PLATED CAST BRASS BRACKETS



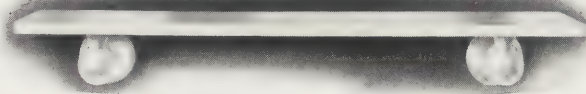
J-1108

Size Shelves.....	inches	5x18	5x24
Price, Crystal.....	each	....	....
" Opal.....	"	....	....

## BATH ROOM FURNISHINGS

### No. 735, SHELVES

WHITE OPAL SHELF, 6 INCHES WIDE,  $\frac{1}{4}$  INCH THICK  
WHITE VITREOUS CHINA BRACKETS



#### J-1110

Diameter of Bracket,  $2\frac{1}{2}$  inches; Projection Over All from Wall,  $6\frac{1}{2}$  inches.

Length.....	inches	18	24	30	36
Price.....	each	....	....	....	....

### No. 727, HAND RAILS

$\frac{1}{4}$ -INCH PYRALIN BAR, WHITE VITREOUS CHINA ROUND POSTS



#### J-1112

Length.....	inches	9	12	16
Price.....	each	....	....	....

Opal glass bars furnished at same price.

### No. 725, TOWEL BARS

1-INCH PYRALIN BAR, WHITE VITREOUS CHINA ROUND POSTS



#### J-1114

Length.....	inches	18	24	30	36
Price.....	each	....	....	....	....

Opal glass bars furnished at same price.

### No. 317, TOWEL BARS

$\frac{3}{4}$ -INCH PYRALIN BAR, WHITE VITREOUS CHINA ROUND POSTS



#### J-1116

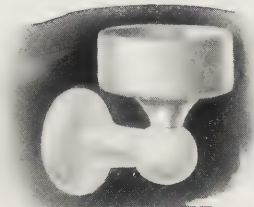
Diameter of Bracket,  $2\frac{1}{4}$  inches; Projection Over All, 3 inches.

Length.....	inches	18	24	30	36
Price.....	each	....	....	....	....

Opal glass bars furnished at same price.

## BATH ROOM FURNISHINGS

### No. 745 VITREOUS CHINA TUMBLER HOLDERS



J-1118

Price.....each .....

### No. 769 VITREOUS CHINA SOAP DISHES



J-1120

Price.....each .....

### SOAP DISHES



J-1122

Price.....each .....

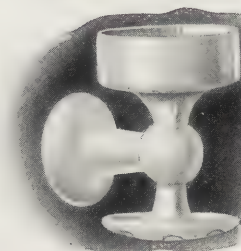
### BRASS SOAP DISHES FOR BATH TUBS



J-1124

Price, Nickel Plated.....each .....

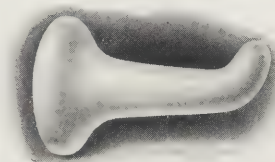
### No. 755 VITREOUS CHINA TUMBLER AND TOOTH BRUSH HOLDERS



J-1126

Price.....each .....

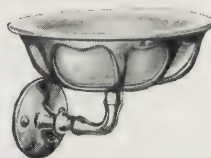
### No. 785 VITREOUS CHINA ROBE HOOKS



J-1128

Price.....each .....

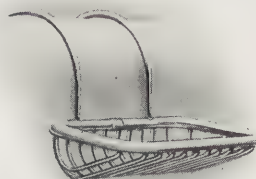
### SOAP DISHES



J-1130

Price.....each .....

### BRASS SOAP DISHES FOR BATH TUBS



J-1132

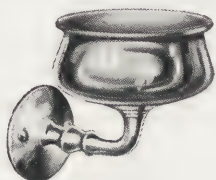
Price, Nickel Plated.....each .....



## BATH ROOM FURNISHINGS

NICKEL-PLATED BRASS

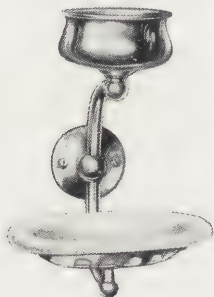
### TUMBLER HOLDERS



J-1134

Price.....each .....

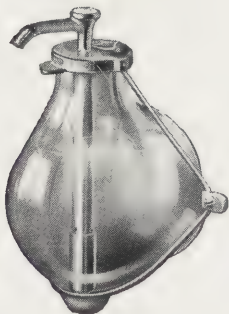
### COMBINATION TUMBLER AND SOAP HOLDERS



J-1136

Price.....each .....

### LIQUID SOAP HOLDERS STYLE M

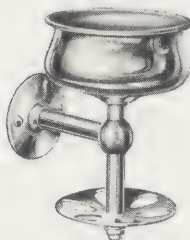


J-1138

Price, Soap Holders.....each .....  
" Liquid Soap.....per gallon .....

Above furnished Cello covered to order, at an additional charge.

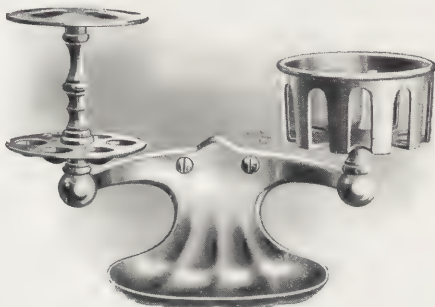
### COMBINATION TUMBLER AND TOOTH BRUSH HOLDERS



J-1140

Price.....each .....

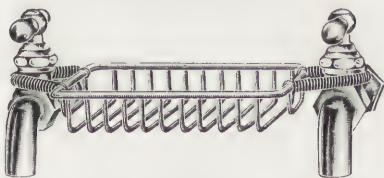
### COMBINATION TOOTH BRUSH TUMBLER AND SOAP HOLDERS



J-1142

Price.....each .....

### KITCHEN SOAP DISHES

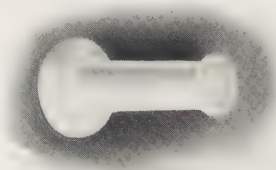


J-1144

Size.....inches 4x6  
Price.....per dozen .....

## BATH ROOM FURNISHINGS

### VITREOUS CHINA PAPER HOLDERS

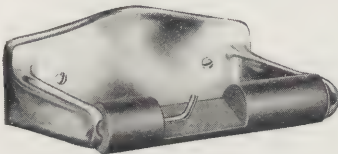


J-1146

Price.....each .....

### CAST BRASS PAPER HOLDERS

WITH WOOD ROLLER

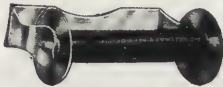


J-1148

Price, Nickel-plated.....each .....

### STAMPED BRASS PAPER HOLDERS

WITH WOOD ROLLER



J-1152

Price, Nickel-plated.....each .....

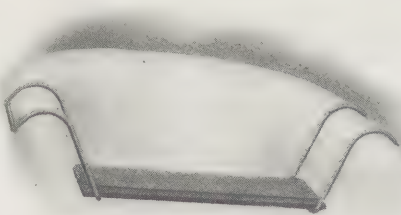
### CAST IRON PAPER HOLDERS



J-1154

Price, Nickel-plated.....each .....  
 " Black Lacquered..... "

### BATH SEATS



J-1150

Price, Oak, with Rubber Covered  
 Arms.....each .....  
 Price, Cello, with Rubber Covered  
 Arms.....each .....

### BATH STOOLS



J-1156

Price, White Enamel.....each .....  
 " Cello..... "  
 " " Cork Top..... "  
 " Heavy Oblong Cello Stool,  
 13x16-in., with Cork Top...each .....

## BATH ROOM FURNISHINGS

### NICKEL-PLATED BRASS

Extra Heavy Robe Hook

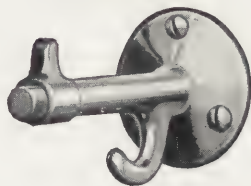


J-1158

Coat and Hat Hook



J-1160

Closet Stall Hook  
With Rubber Bumper

J-1162

Price, J-1158, 3-inch Projection.....	each	.....
" J-1160, 6 Inches High.....	"	.....
" J-1162, 4-inch Projection.....	"	.....

Coat and Hat Hook

Robe  
Hook

J-1164



J-1166

Strop  
Hook

J-1168

Towel Hook



J-1170

Price, J-1164.....	each	.....
" J-1166.....	"	.....
" J-1168.....	"	.....
" J-1170.....	"	.....

Above hooks furnished Cello covered, at double the above list

### TOILET PAPER

Price, Fort Orange, in Case Containing		
100, 1000-sheet Rolls . . . . .	per 100	.....
" Y. J. in Case Containing 100,		
1000-sheet Rolls . . . . .	per 100	.....
" Cherub, in Case Containing 100,		
625-sheet Rolls . . . . .	per 100	.....
" Toyama Crepe, in Case Contain-		
ing 100 8-oz. Rolls . . . . .	per 100	.....
" White Crepe, in Case Containing		
100 7-ounce Rolls . . . . .	per 100	.....
" Manila Crepe, in Case Contain-		
ing 100 7-oz. Rolls . . . . .	per 100	.....



J-1172

## BATHROOM FURNISHINGS

### WOOD RECESS CABINETS

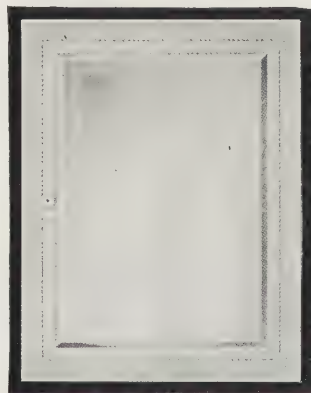


**J-1174**

White Enamel Finish Cabinet with 10x14-inch Beveled Mirror, Lock and Key, Nickel-plated Hardware. Outside 20½x16½ in. Recess part, 17½ in. high, 13 in. wide, 3¾ in. deep.

Price, Wood Shelves . . . . . each **12.50**  
 " Plate Glass Shelves . . . . . **13.70**

### WHITE-STEEL MEDICINE CABINETS WITH FULL DOOR

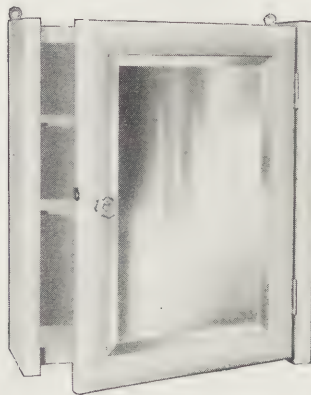


**J-1176**

No.	Size Over All Inches	Mirror Plate Inches	No. of Glass Shelves	Open ng for In- set Type Inches	Price Each
10	21 3/8 x 15 3/8	12x18	2	20 x 14 1/4	<b>25.00</b>
1014	25 3/8 x 15 3/8	12x22	3	24 x 14 1/4	<b>31.00</b>
20	26 1/2 x 20 1/2	16x22	2	24 x 18 1/4	<b>35.00</b>
2024	30 1/2 x 20 1/2	16x26	3	28 x 18 1/4	<b>41.00</b>
30	31 1/2 x 25 1/4	20x26	3	29 1/4 x 23 1/2	<b>65.00</b>

Reversible, so door opens right or left. Made for recess or wall type, as ordered.

### WOOD WALL CABINETS



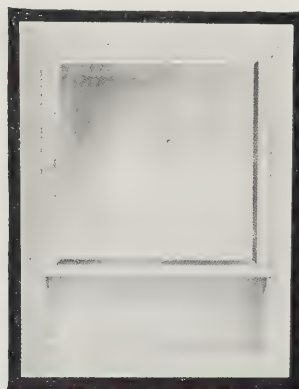
**J-1178**

White Enamel Finish Cabinet with 10x14-inch Beveled Mirror, Glass Knob on Door, Outside 18x14x6 inches.

Price, Wood Shelves . . . . . each **9.50**  
 " Plate Glass " . . . . . **10.80**

### WHITE-STEEL MEDICINE CABINETS

#### WITH OPEN SHELF BELOW DOOR



**J-1180**

No.	Size Over All Inches	Mirror Plate In.	No. of Glass Shelves	Opening for In- set Type Inches	Price Each
1012 1/2	21 3/8 x 15 3/8	12x12	2	20 x 14 1/4	<b>25.00</b>
14	25 3/8 x 15 3/8	12x16	2	24 x 14 1/4	<b>31.00</b>
2022 1/2	26 1/2 x 20 1/2	16x16	2	24 x 18 1/4	<b>33.00</b>
3032 1/2	31 1/2 x 25 1/4	20x20	2	29 1/4 x 23 1/2	<b>65.00</b>

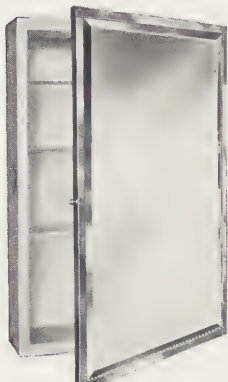
Furnished either right or left hand. Made for recess or wall type, as ordered.



## BATH ROOM FURNISHINGS

### WOOD MEDICINE CABINETS

#### FOR WALL



J-1182

Wall Cabinet with Nickel-plated on Brass Front, Sanoid on Wood Box, Bevel French First Quality Mirror, Three Plate Glass Shelves.

Size Glass Inches	Outside Measurements Inches	Price Each
24x16	24 $\frac{5}{8}$ x16 $\frac{5}{8}$ x5 $\frac{1}{4}$	35.00

#### FOR RECESS



J-1186

Wood Recess Cabinet, Sanoid Finish, Bevel French First Quality Glass, Nickel-plated Trimmings, Lock and Key, Three Plate Glass Shelves.

Size Glass Inches	Size Recess Inches	Price Each
18x12	23x17x4 $\frac{5}{8}$	27.00
20x14	25x19x4 $\frac{5}{8}$	33.00

#### FOR WALL



J-1184

Wood Cabinet, Sanoid Finish, Three Plate Glass Shelves, Bevel French First Quality Glass, Lock and Key, Nickel-plated Trimmings.

Size Glass Inches	Outside Measurements Inches	Price Each
18x12	23x17 $\frac{3}{4}$ x5 $\frac{3}{4}$	25.00
20x14	25x19 $\frac{3}{4}$ x5 $\frac{3}{4}$	31.00

#### FOR CORNER



J-1188

Wood Corner Cabinet, Sanoid Finish, First Quality Bevel French Glass, Lock and Key, Nickel-plated Trimmings, Three Plate Glass Shelves.

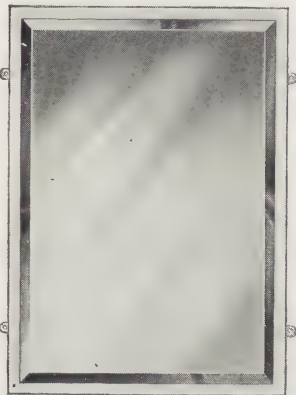
Size Glass Inches	Outside Height Inches	Length on Each Wall Inches	Price Each
18x12	23	14	30.00

## BATH ROOM FURNISHINGS

### BEVEL PLATE GLASS MIRRORS

#### WHITE STEEL FRAME

$\frac{5}{8}$  INCH WIDE



J-1190

Size Glass Inches	PRICE, EACH	
	Sanoid Finish Frame with Bevel Glass	White Enamel Frame with Plain Glass
12x18	11.00	8.50
14x20	13.50	10.00
16x24	17.00	13.00

#### NICKEL-PLATED BRASS FRAME

$\frac{3}{8}$  INCH WIDE



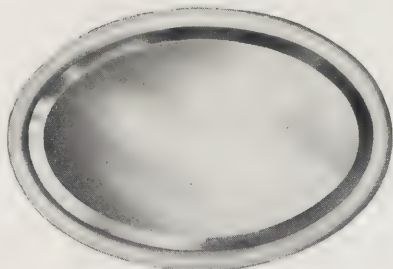
J-1194

Size Glass Inches	Price, Ea. Nickel- plated	Size Glass Inches	Price, Ea. Nickel- plated
12x18	10.00	18x28	21.50
14x20	13.00	20x30	25.50
16x24	17.00	.....	.....

Fitted with Best Quality French Plate Glass.

#### WHITE WOOD FRAME

OVAL

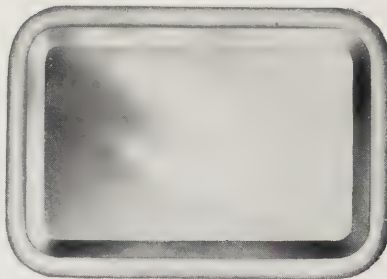


J-1192

Size Glass Inches	Width Frame Inches	PRICE, EACH	
		Sanoid Finish	White Enamel
12x18	1	9.50	8.00
14x20	1 $\frac{1}{4}$	12.50	10.50
16x24	1 $\frac{3}{8}$	16.00	13.50
18x28	1 $\frac{1}{2}$	22.00	19.00
20x30	1 $\frac{1}{2}$	26.00	22.00

#### WHITE WOOD FRAME

ROUND CORNERED



J-1196

Size Glass Inches	Width Frame Inches	PRICE, EACH	
		Sanoid Finish	White Enamel
12x18	1	9.50	8.00
14x20	1 $\frac{1}{4}$	12.50	10.50
16x24	1 $\frac{3}{8}$	16.00	13.50
18x28	1 $\frac{1}{2}$	22.00	19.00
20x30	1 $\frac{1}{2}$	26.00	22.00

Sanoid Finish Frames are fitted only with the best quality French Plate Glass; White Enamel Frames with Commercial Quality Glass.

## BUBBLING HEADS

WITH SPOUT



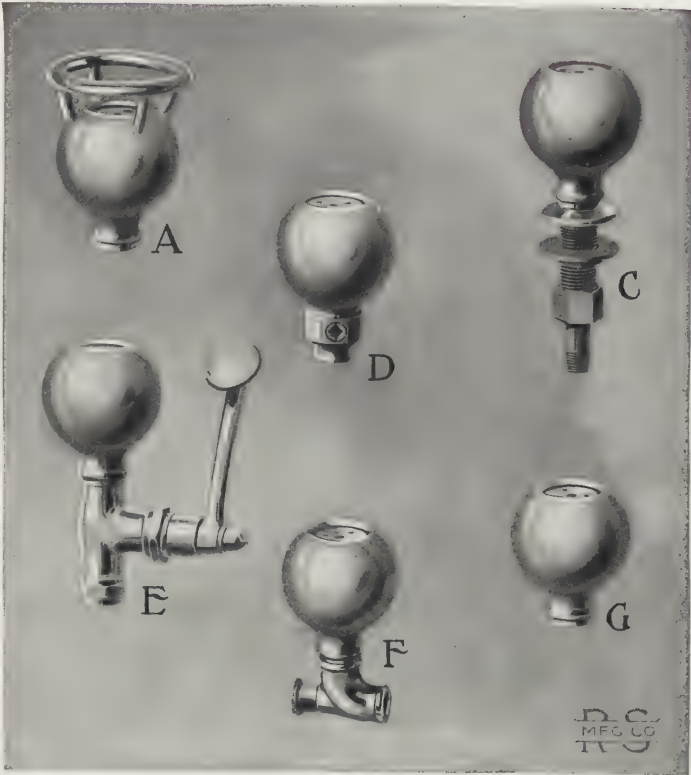
J-1256

The head is self-draining, and so constructed that it is impossible to squirt the water which after passing through drinking head, falls back and discharges through nickel-plated brass spout, making it possible to use individual drinking cup.

- |  |      |      |
|--|------|------|
| Plate C-2—Nickel-plated Brass Push Button Self-closing Stop with $\frac{1}{2}$ -inch Volume Regulator and 4-inch Diameter China Cup. Measures 6 inches from end of supply shank to top of cup. . . . .                 | each | 5.50 |
| Plate C-3—Nickel-plated Brass Push Button Self-closing Stop with $\frac{1}{2}$ -inch Volume Regulator and 4-inch Diameter China Cup. Measures $3\frac{7}{8}$ inches from end of supply shank to center of cup. . . . . | each | 5.50 |
| Plate C-4—Nickel-plated Brass Push Button Self-closing Stop with $\frac{1}{2}$ -inch Volume Regulator and 4-inch Diameter China Cup. Measures $3\frac{7}{8}$ inches from end of supply shank to center of cup. . . . . | each | 6.50 |

The above can be furnished with  $3\frac{1}{4}$ -inch brass cup covered with white celluloid paint or polished and nickel-plated at same price.

BUBBLING HEADS



J-1258

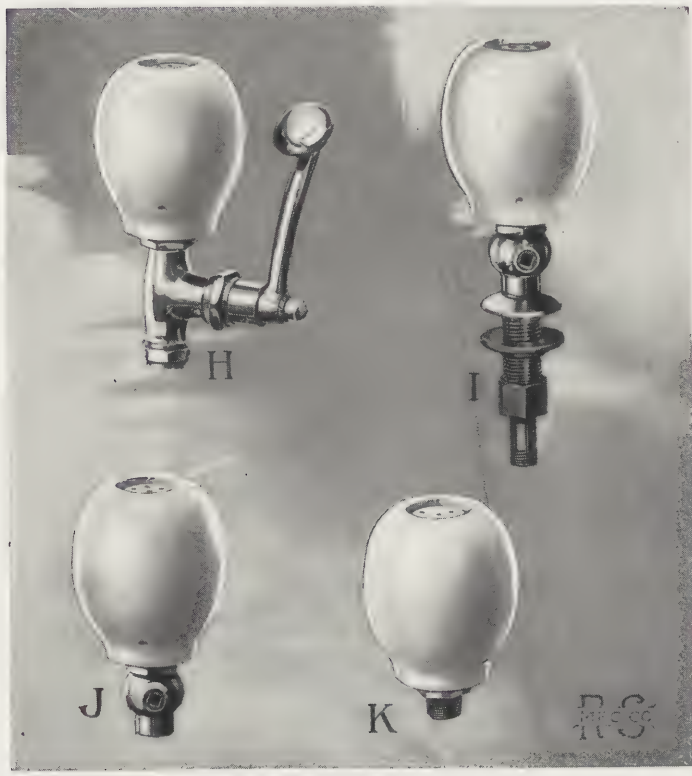
Plate A—Nickel-plated Cast Brass Bubbling Head with Mouth Guard.....	each	4.00
Plate C— “ “ “ “ “ “ “ Flange Locknut and Tail Piece.....	each	3.75
Plate D—Nickel-plated Cast Brass Bubbling Head with Volume Regulator..	each	3.75
Plate E— “ “ Cast Brass Bubbling Head with Lever Handle Ball-bearing Self-closing Stop.....	each	5.80
Plate F—Nickel-plated Cast Brass Bubbling Head with Volume Regulator..	each	3.75
Plate G— “ “ “ “ “ “ .....	each	2.25
If Plate E is furnished with By-pass, add .....		1.50

Bubbling heads shown above and all heads of similar pattern in this catalogue, are made with waste hole, causing them to empty after using.

Above heads are furnished for ¼-inch iron pipe.



**BUBBLING HEADS**



J-1260

Plate H—China Bubbling Head with Nickel-plated Brass Lever Handle Ball-bearing Self-closing Stop. ....	each	7.55
Plate I—China Bubbling Head with Nickel-plated Brass Volume Regulator, Flange, Locknut and Tail Piece .....	each	7.00
Plate J—China Bubbling Head with Volume Regulator.....	"	5.50
Plate K— " " " .....	"	4.00
If Plate H is furnished with By-pass, add.....		1.50
Bubbling heads shown above are made with waste hole, causing them to empty after using.		

## BUBBLING HEADS



J-1262

- |  |      |      |
|--|------|------|
| Plate P—Nickel-plated Cast Brass Bubbling Head, with Extra Strong Arm Self-closing Valve threaded $\frac{3}{8}$ -inch I. P. and Volume Regulator. . . . .        | each | 6.75 |
| Plate R—Nickel-plated Cast Brass Bubbling Head, Fuller Cock, threaded $\frac{3}{4}$ -inch Iron Pipe with Special Tee and Self-closing Push Button Stop . . . . . | each | 9.50 |
| Plate O—Nickel-plated Cast Brass Bubbling Head, with Self-closing Valve, threaded $\frac{3}{8}$ -inch Iron Pipe and Volume Regulator. . . . .                    | each | 6.75 |
| Plate N—China Bubbling Head, with Nickel-plated Self-closing Valve, threaded $\frac{3}{8}$ -inch Iron Pipe and Volume Regulator. . . . .                         | each | 8.50 |
| Plate L—Rough Aluminum Bubbling Head Threaded $\frac{1}{2}$ -inch Iron Pipe and Volume Regulator. . . . .  | each | 1.80 |

Cap shown in the valves P, O and N, covers volume regulator screw.

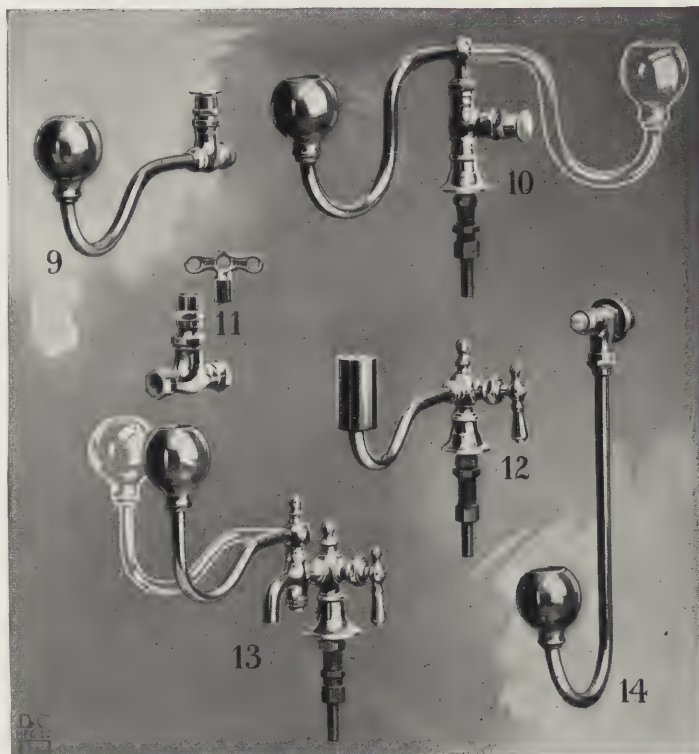
## BUBBLING HEADS



J-1264

- |  |      |      |
|--|------|------|
| Plate V—Nickel-plated Cast Brass Bubbling Head, Swinging Type, with Lever Handle Ball-bearing Self-closing Cock to fit through Lavatory.....   | each | 9.90 |
| Plate W—Nickel-plated Cast Brass Bubbling Head, Swinging Type, with Lever Handle Ball-bearing Self-closing Cock threaded ½-inch I. P.....  | each | 9.90 |
| Plate Y—Nickel-plated Cast Brass Bubbling Head, Swinging Type, with Combination Ground Key and Fuller Cock, threaded ½-inch I. P. When head is swung to one side, water will pass through spout. When head is parallel with spout, water will pass only through bubbling head..... | each | 9.45 |
| Plate X—Nickel-plated Cast Brass Bubbling Head, not Swinging, with Loose Key Compression Stop threaded ½-inch I. P.....  | each | 6.00 |
| Plate 7—Nickel-plated Cast Brass Bubbling Head, Swinging Type, with Fuller Cock to fit through Lavatory.....   | each | 7.80 |
| Plate 8—Nickel-plated Cast Brass Bubbling Head, Swinging Type, with Fuller Cock threaded ½-inch I. P.....  | each | 7.80 |

## BUBBLING HEADS



J-1266

- |  |           |
|--|-----------|
| Plate 9—Nickel-plated Cast Brass Bubbling Head with Push Button Self-closing Stop .....  | each 6.30 |
| Plate 10—Nickel-plated Cast Brass Bubbling Head (Swinging Type) with Push Button Self-closing Basin Cock to fit through Lavatory .....   | each 8.85 |
| Plate 11—Nickel-plated Cast Brass Loose Key Compression Stop; may be substituted for any of the Self-closing Stops shown.....  | each 1.60 |
| Plate 12—Nickel-plated Brass Light-weight Stationary Bubbling Head with Fuller Cock to fit through Lavatory .....  | each 5.40 |
| Plate 13—Nickel-plated Cast Brass Bubbling Head (Swinging Type) with Combination Ground Key and Fuller Cock to fit through Lavatory<br>When Head is swung to one side, water will pass through Spout.<br>When Head is parallel with Spout, water will pass only through Bubbling Head..... | each 9.75 |
| Plate 14—Nickel-plated Cast Brass Stationary Bubbling Head with Push Button Self-closing Stop having China Plate Marked "Push" .....   | each 7.80 |

Plate 9, 10 and 14 can be furnished with by-pass, allowing water to run constantly—a desirable feature during warm weather. If furnished with by-pass, add 1.50.



## BUBBLING HEADS



J-1268

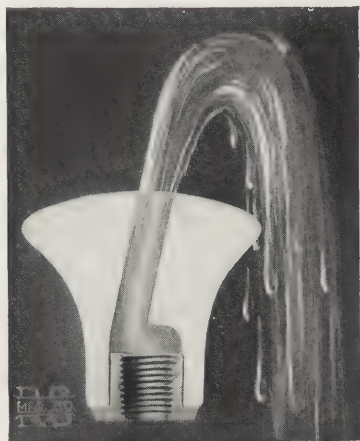
Plate 25-Vitreous China Bubbling Head with Nickel-plated, Self-closing Valve and Volume Regulator.....	each	7.40
Plate 26-Vitreous China Bubbling Head only, 1/4-inch I. P. Thread.....	"	2.90
Plate 27-Vitreous China Bubbling Head with Volume Regulator.....	"	4.40
Plate 28-Vitreous China Bubbling Head with Nickel-plated Lever Handle Ball-bearing Self-closing Stop, 3/8-inch I. P. Thread .....	each	6.45
Plate 29-Vitreous China Bubbling Head with Nickel-plated Supply Arm and Push Button Self-closing Stop, 3/8-inch I. P. Thread.....	each	6.95

Plates 28 and 29 can be furnished with By-pass extra, 1.50 each.

Above heads are for straight stream. Can be furnished for slant stream extra, 25 cents each.

## BUBBLING HEADS

### SLANT STREAM BUBBLING HEADS



**J-1270**

China Head,  $\frac{1}{4}$ -inch I. P. Connection.  
Price.....each **3.15**  
If with Volume Regulator, add.....each **1.50**  
If with Vertical Stream Opening, deduct.....each **.25**

### PRESSURE REGULATOR BUBBLING HEADS



**J-1272**

Nickel-plated Cast Brass Slant Stream Bubbler with Pressure Regulator. For  $\frac{3}{8}$ -inch I. P. Connection. Diam  $2\frac{1}{4}$  in.  
Price.....each **8.25**

### SLANT STREAM BUBBLING HEADS



**J-1274**

Nickel-plated Cast Brass Slant Stream Bubbler,  $\frac{1}{4}$ -inch I. P. Connection.  
Price.....each **2.00**  
If with Volume Regulator, add.....each **1.50**  
If with Vertical Stream Opening, deduct.....each **.25**

### PRESSURE REGULATOR BUBBLING HEADS



**J-1276**

Nickel-plated Cast Brass Vertical Stream Bubbler with Pressure Regulator. For  $\frac{1}{4}$ -inch I. P. Connection. Diameter, 2 inches.  
Not made in slant stream.

Price.....each **9.00**

## SELF-CLOSING STOPS FOR DRINKING FOUNTAINS

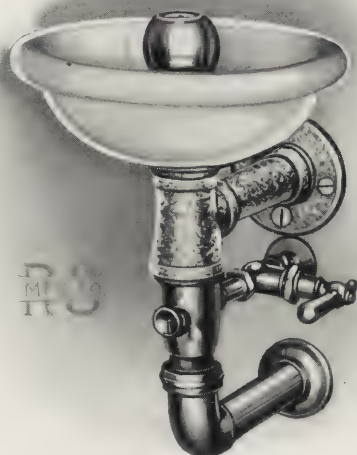


J-1278

Plate 45—Nickel-plated Cast Brass Lever Handle $\frac{3}{8}$ -inch Ball-bearing Self-closing Stop.....	each	3.55
Plate 46—Nickel-plated Cast Brass Lever Handle $\frac{3}{8}$ -inch Ball-bearing Self-closing Stop with By-pass.....	each	5.05
Plate 47—Nickel-plated Cast Brass $\frac{3}{8}$ -inch Ball-bearing Self-closing Stop with By-pass and 4-arm Handle having China Plate.....	each	5.95
Plate 48—Nickel-plated Cast Brass Push Button $\frac{3}{8}$ -inch Self-closing Stop with By-pass, Concealed Volume Regulator and Wings.....	each	4.95
Plate 49—Nickel-plated Cast Brass Push Button $\frac{3}{8}$ -inch Self-closing Stop with By-pass and Concealed Volume Regulator.....	each	4.50
Plate 50—Nickel-plated Cast Brass Push Button $\frac{1}{2}$ -inch Self-closing Stop with Union, Concealed Volume Regulator and By-pass.....	each	5.25
Plate 51—Nickel-plated Cast Brass Lever Handle $\frac{3}{8}$ -inch Ball-bearing Self-closing Stop with By-pass.....	each	5.05
Plate 51 $\frac{1}{2}$ —Not Illustrated. Same as Plate 51 without By-pass.....	"	3.55
Plate 52—Nickel-plated Brass Bubbling Head with Elbow and Mouth Guard....	"	4.50

By-pass makes it possible, when necessary, to permit small amount of water to continually flow through valve so that drinking head is always wet.

## DRINKING FOUNTAINS



J-1280

Extra Heavy Vitreous China Bowl on Heavy Galvanized Iron Bracket, with Nickel-plated Cast Brass Bubbling Head, Ball Bearing Lever Handle Self-closing Stop, Galvanized Iron Supply Pipe with Volume Regulator, and Brass Waste to Wall. Brass Parts below Bowl Rough Dip Nickel Finish to Match Galvanized Iron Bracket.

Diameter of Bowl  $9\frac{1}{2}$  inches  
Wall to Center of Bowl 8 inches

Price, as described.....	<b>19.25</b>
$1\frac{1}{4}$ -inch Nickel-plated Trap extra.....	<b>2.00</b>

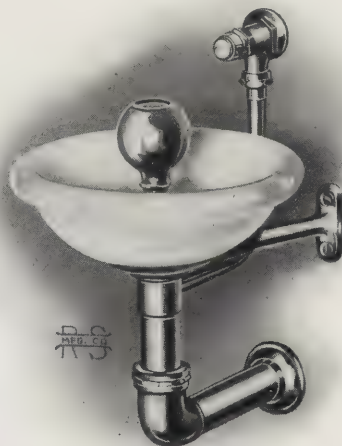
Slant stream, vertical stream china or pressure regulator drinking heads or extra heavy large china bowl fitted with Vertico-Slant stream drinking head, can be furnished with the above fountain at additional expense.

Extra Heavy Vitreous China Bowl with Nickel-plated Bracket, Nickel-plated Cast Brass Bubbling Head, Nickel-plated Brass Push Button Self-closing Stop with Nickel-plated Brass Supply Pipe and Nickel-plated Brass Waste Pipe to Wall.

Diameter of Bowl  $9\frac{1}{2}$  inches  
Wall to Center of Bowl  $6\frac{3}{4}$  inches

Price, as described.....	<b>16.50</b>
$1\frac{1}{4}$ -inch Nickel-plated Trap, Extra.....	<b>2.00</b>

Push button stop is made with concealed regulating device, to control flow of water and can be furnished with by-pass, at 1.50 extra.

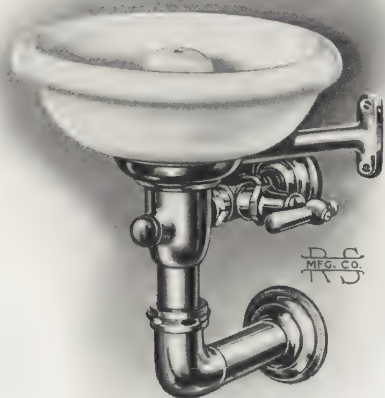


J-1282

Slant stream, vertical stream china or pressure regulator drinking heads, can be furnished with the above fountains at additional expense.



## DRINKING FOUNTAINS



J-1284

Extra Heavy Vitreous China Bowl with Integral Bubbling Head, Nickel-plated Bracket, Lever Handle Self-closing Ball Bearing Stop, Nickel-plated Brass Supply Pipe with Volume Regulator, and Nickel-plated Brass Waste Pipe to Wall.

Diameter of Bowl  $9\frac{1}{2}$  inches  
Wall to Center of Bowl  $6\frac{3}{4}$  inches

Price, as described . . .	16.00
“ $1\frac{1}{4}$ -inch Nickel-plated Trap extra	2.00

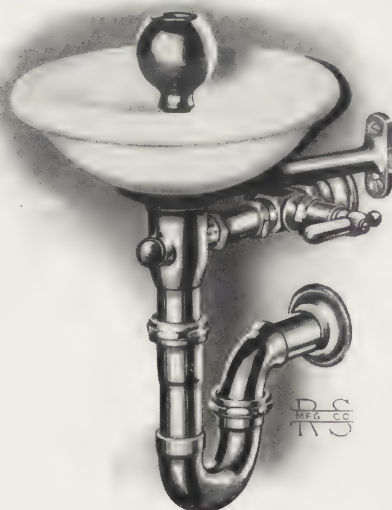
Cap shown in combination waste and supply fitting covers regulating screw, which controls flow of water.

Extra Heavy Vitreous China Bowl with Nickel-plated Bracket, Nickel-plated Cast Brass Bubbling Head, Lever Handle Ball Bearing Self-closing Stop, Nickel-plated Brass Supply Pipe with Volume Regulator, and Nickel-plated Brass Trap to Wall.

Diameter of Bowl  $9\frac{1}{2}$  inches  
Wall to Center of Bowl  $6\frac{3}{4}$  inches

Price, as described . . . . . 20.00

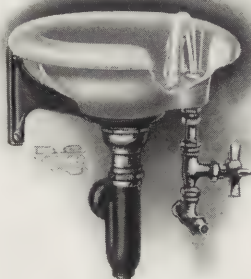
Cap shown in combination waste and supply fitting covers regulating screw, which controls flow of water.



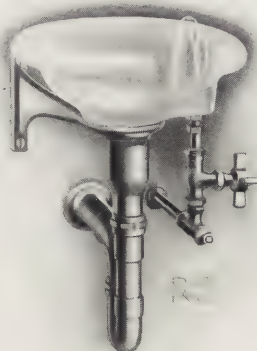
J-1286

## DRINKING FOUNTAINS

PATENTED



**J-1288**



**J-1290**

### J-1288

Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head, Aluminum Bronzed Iron Bracket and Trap, Rough Brass Self-closing Ball-bearing Four-arm Handle Stop and Loose Key Stop.

Diameter of Bowl 12 inches      Wall to Drinking Jet 8 inches

Price, as described.....each      **25.00**

### J-1290

Same as Fig J-1288 except trimmings are nickel-plated.

Price, as described.....each      **30.50**

If with Foot Valve Control Concealed in Floor, add..... **7.00**

Glass or cup can be filled from this stream. Nozzle cannot be touched by the lips.

### J-1292

Two Extra Heavy Vitreous China Bowls with Vertico-slant Drinking Heads, each with Nickel-plated Bracket, Nickel-plated Self-closing Ball-bearing Four-arm Handle Stop, Loose Key Stop, Nickel-plated Waste with Trap.

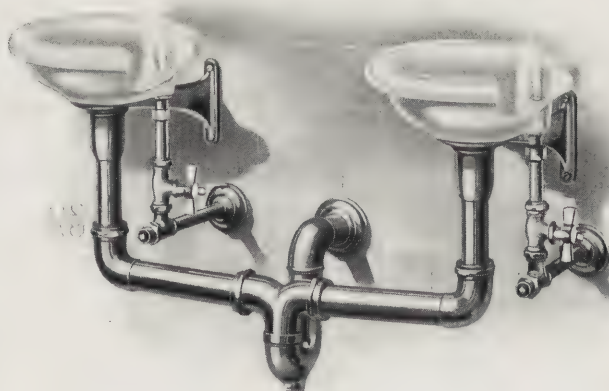
Diameter of Bowl 12 in.

Wall to Jet 8 in.

Center to Center 24 in.

Price, as described

..each      **67.00**



**J-1292**

## DRINKING FOUNTAINS

PATENTED

Vitreous China One-piece Fountain on Concealed Hanger, China Bubbling Head, Self-closing Four-arm Handle Stop, Supply with Volume Regulator and Rough Brass Trap Concealed.

Diameter of Bowl  $11\frac{1}{2}$  inches  
Wall to Center of Bowl,  $8\frac{1}{2}$  inches  
Projects from Wall  $14\frac{1}{2}$  inches

Price, as described . . . each **49.50**

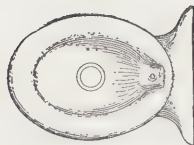
Oscillating lever handle can be furnished instead of four-arm handle shown at same price. Slant stream drinking head can be furnished with the above fountain at an additional charge.



**J-1294**

PATENTED

**Plan**



Vitreous China One-piece Fountain on Concealed Hanger, Vertico-Slant Stream Drinking Head, Nickle-plated Brass Self-closing Four-arm Handle Stop. Supply with Volume Regulator and Rough Brass Trap Concealed.

Oval Bowl  $11 \times 14$  Inches  
Wall to Drinking Jet 5 inches  
Projects from Wall 16 inches

Price, as described . . . each **52.50**  
If with Foot Valve Control, add. . . . . **7.00**

Oscillating lever handle furnished instead of four-arm handle shown at same price.

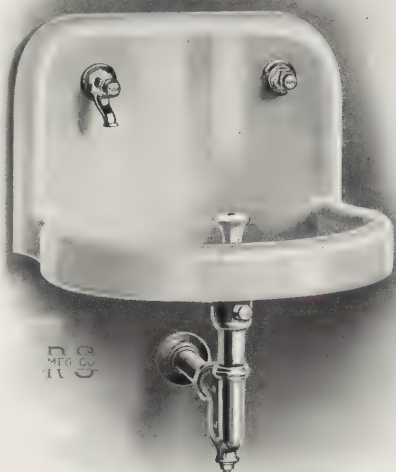
Glass or cup readily filled from this stream.

For copious drinking the Vertico-Slant equals the vertical stream. Mouth of user 2 inches to one side of nozzle prevents water falling back upon it. Uses less water than old style drinking head. Nozzle cannot be touched by the lips or tongue.



**J-1296**

## DRINKING FOUNTAINS



J-1298

Cast Iron Roll Rim Enameled Slab and Back in One Piece on Concealed Hanger, China Bubbling Head with Nickel-plated Push Button Self-closing Control, Volume Regulator and Supply Pipe to Bubbler, Nickel-plated Push Button Self-closing Stop with Spout for Use with Individual Drinking Cup and Nickel-plated Trap.

Length 18 inches    Front to Back 16 inches  
Face of Back to Center of Bubbler  $8\frac{1}{2}$  Inches  
Height of Back  $9\frac{3}{4}$  inches

Price, as described. . . . . 50.00

Slant stream drinking head or one with water pressure regulator can be furnished at an additional charge.

Cast Iron Roll Rim Slab, Bowl and Back in One Piece Enameled All Over on Concealed Hanger, Nickel-plated Cast Brass Bubbling Head with Lever Handle Ball-bearing Self-closing Stop, Nickel-plated Supply Pipe, Volume Regulator, and Nickel-plated Trap.

Length 15 inches    Front to Back  $15\frac{1}{2}$  inches  
Height of Back 5 inches.

Price, as described. . . . . each 28.00

If with By-pass, allowing small amount of water to run constantly, add. . . . . 1.50

Slant stream drinking head or one with water pressure regulator or vertical stream china one, can be furnished at an additional charge.



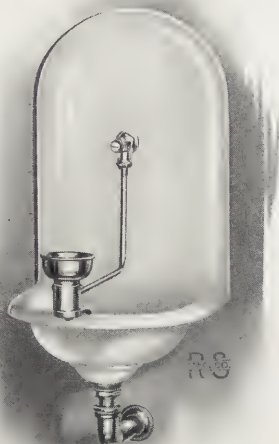
J-1300



## DRINKING FOUNTAINS



J-1302



J-1304

### J-1302

Cast Iron Roll Rim Alcove Drinking Fountain, Enameled All Over, with Nickel-plated Brass Push Button Self-Closing Stop, Supply Pipe and Bubbling Head, and Nickel-plated Brass Waste Pipe to Wall.

Height, 23½ inches.

Width, 13 inches.

Recess in Wall, 3½ inches.

Front to Back, 7½ inches.

Price, as described ..... 39.00

### J-1304

Cast Iron Roll Rim Flat Back Drinking Fountain, Enameled All Over, with Nickel-plated Brass Push Button Self-Closing Stop, Supply Pipe and Bubbling Head, and Nickel-plated Brass Waste Pipe to Wall.

Height, 23½ inches.

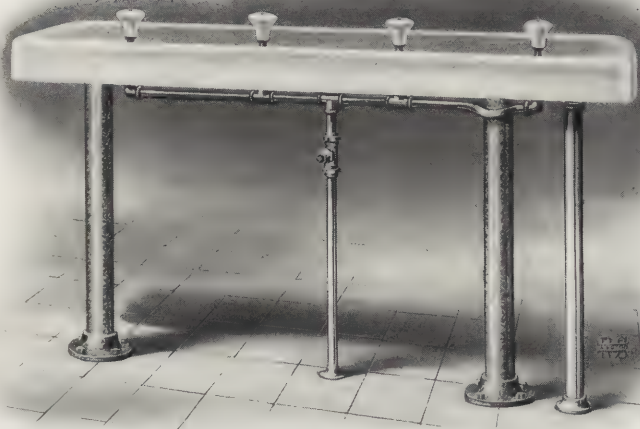
Width, 13½ inches.

Front to Back, 11 inches.

Price, as described ..... 37.25

Push button stops are made with volume regulator and can be furnished with by-pass, at 1.50 extra.

## DRINKING FOUNTAINS

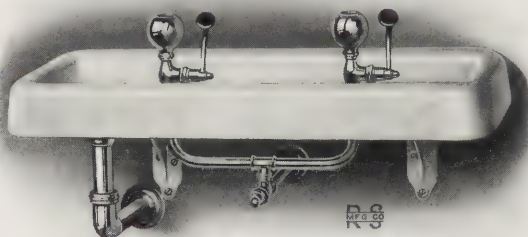


J-1303

Cast Iron Roll Rim Enameled Apron Receptor 3 Inches Deep, 13 Inches Wide, 54 Inches Long, 30 Inches High on 1½-inch Galvanized Pipe Standards, 4 China Bubbling Heads, Galvanized Supply Pipe with Loose Key Stop and 1½-inch Rough Nickel-plated Waste Pipe to Floor.

Price, as described..... 80.00  
If with 1½-inch Nickel-plated Brass Trap, add..... 3.50

Cast Iron Roll Rim Enameled Apron Receptor 3 inches Deep, 13 Inches Wide Outside, on Semi-concealed Brackets, Nickel-plated Cast Brass Bubbling Heads with Lever Handle Ball-bearing Self-closing Stops, Galvanized Supply Pipe with Loose Key Stop and Nickel-plated Brass Waste Pipe to Wall.



J-1308

Length.....	inches	30	42	54
No. of Bubbling Heads.....		2	3	4
Price, as described.....		52.50	68.50	84.50

Can be furnished with by-pass, allowing small amount of water to run constantly at an additional charge.

Slant stream heads and ones with pressure regulator may be furnished on these fountains.

## MILWAUKEE'S FAMOUS COOLER FOUNTAINS



J-1310

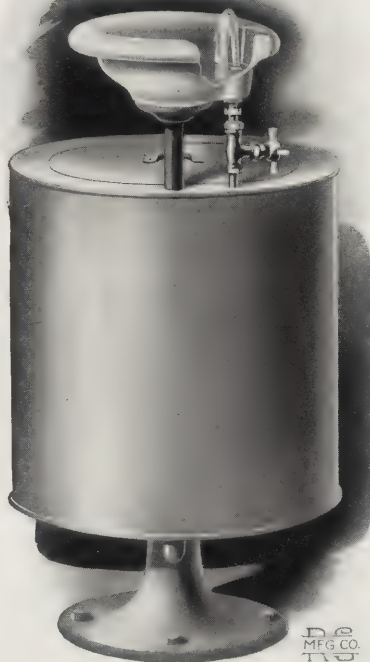
Cooler Fountain with Extra Heavy Vitreous China Bowl, 9½ inches in diameter, Nickel-plated Bubbling Head, having Lever Handle Ball-bearing Self-closing Stop, Barrel of 1½-inch thick Oak, Painted Outside, Cover of Double Thickness, Galvanized Pipe Coil through which Water Passes to Drinking Head without coming in contact with Ice, Galvanized Waste Pipe from Drinking Head and Gate Valve on Waste Outlet.

Number.....	1	2
Barrel, Capacity.....	gallons 15½	31
Approximate Ice Capacity.....	pounds 60	100
Price, as described.....	each 55.00	72.00
If furnished with 12-inch Extra Heavy Bowl with Vertico-Slant Stream from which Glass can be readily filled, add.....		
		10.00
If furnished as Cooler, only, without Drinking Head, Bowl or Galvanized Waste Pipe, deduct.....		
		15.00

Slant stream drinking head or vertical stream china one can be furnished with the above fountain at an additional charge.

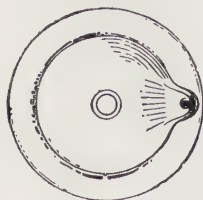
## METAL BODY COOLER FOUNTAINS

PATENTED



J-1312

Plan of Bowl



Extra Heavy Vitreous China Bowl, 12 inches in diameter, with Vertico-Slant Drinking Head, Self-closing Ball-bearing Four-arm Handle Stop, Galvanized Pipe Coil through which Water passes to Drinking Head without Coming in Contact with ice, Cast Iron Top, Bottom and Flanged Standard, Painted two Coats. Top, Bottom and Shell of Body Insulated with Cork.

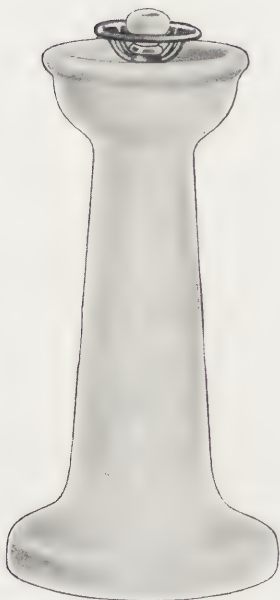
Number.....	8
Ice Capacity..... pounds	75
Price, as described..... each	75.00
If with Foot Valve Control in Floor, add.....	7.00
If furnished as Cooler only, without Drinking Head Attachment, deduct.....	20.00

Glass or cup readily filled from this stream.

For copious drinking the Vertico-Slant equals the vertical stream. Mouth of user 2 inches to one side of nozzle prevents water falling back upon it. Uses less water than old style drinking head. Nozzle cannot be touched by the lips. Greatly reduced pressure puts fountain out of use before it can become a menace to health and life.



## DRINKING FOUNTAINS



J-1314



J-1316

### J-1314

Vitreous China Pedestal Drinking Fountain with Nickel-plated Brass Self-closing Valve, China Bubbling Head and Volume Regulator, Galvanized Iron Supply and Waste Pipe to Floor.

Height 30 inches	Diameter of Bowl 11½ inches	Diameter of Base 15 inches
Height 36 inches	Diameter of Bowl 13¾ inches	Diameter of Base 16 inches

Height.....	inches	30	36
Price, as described.....		62.00	66.00
If with Self-closing Side Control, add .....		2.50	

### J-1316

Cast Iron Pedestal, Extra Heavy Vitreous China Bowl, China Bubbling Head with Extra Strong Arm Self-closing Valve, Volume Regulator, Galvanized Iron Waste and Supply Pipe to Floor.

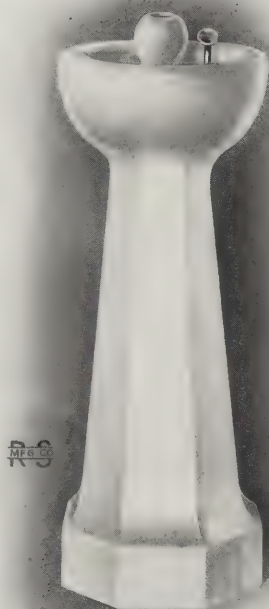
Height 36 inches	Diameter of Bowl 12 inches	Diameter of Base 15 inches
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Price, as described, Enameled Pedestal.....	43.50
“ “ “ Painted .....	34.75

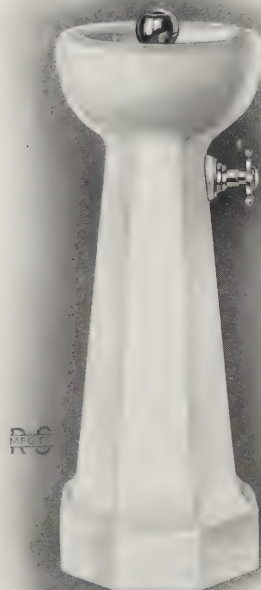
Can be furnished to order in 30 inch height.

Slant stream drinking head or one with water pressure regulator can be furnished with the above fountain at an additional charge

## DRINKING FOUNTAINS



**J-1318**



**J-1320**

### J-1318

Vitreous China Pedestal Drinking Fountain, China Bubbling Head with Nickel-plated Brass Lever Handle Ball-Bearing Self-closing Stop, Galvanized Iron Waste and Supply Pipe to Floor.

Height, 30 Inches      Diameter of Bowl, 12 Inches      Depth of Bowl, 3¾ Inches

Price, as described.....	58.50
If with By-pass allowing small amount of water to run constantly, add	1.50

### J-1320

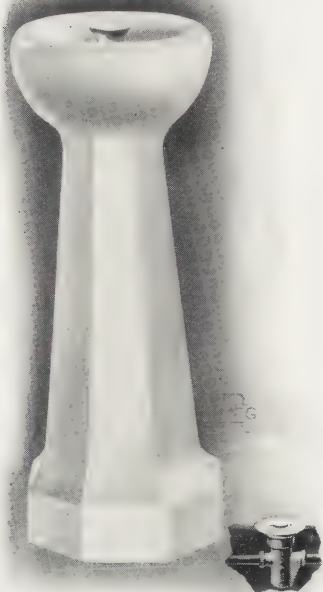
Vitreous China Pedestal Drinking Fountain, Nickel-plated Cast Brass Bubbling Head with Nickel-plated Brass Self-closing Side Control Valve, Volume Regulator, Galvanized Iron Waste and Supply Pipe to Floor.

Height, 30 Inches      Diameter of Bowl, 12 Inches      Depth of Bowl, 3¾ Inches

Price, as described.....	61.00
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Slant stream drinking head or those with water pressure regulator can be furnished with the above fountains at an additional charge.

## DRINKING FOUNTAINS



J-1322



J-1324

### J-1322

Vitreous China Pedestal Drinking Fountain, China Bubbling Head and Volume Regulator, Galvanized Iron Waste and Supply Pipe to Floor with Self-closing Push Button Foot Valve.

Height, 30 inches      Diameter of Bowl, 12 inches      Depth of Bowl, 3¼ inches

Price, as described ..... 65.50

### J-1324

Vitreous China Pedestal Drinking Fountain, China Bubbling Head with Nickel-plated Lever Handle Ball-bearing Self-closing Stop, Nickel-plated Supply Pipe with Loose-key Stop and Nickel-plated Trap to Wall.

Height, 30 inches      Diameter of Bowl, 12 inches      Depth of Bowl, 3¼ inches

Price, as described ..... 70.00

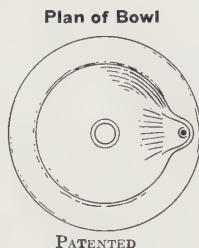
If with By-pass Allowing Small Amount of Water to Run Constantly, add. 1.50

Slant stream drinking heads or those with water pressure regulator can be furnished with the above fountains at additional charge.

# DRINKING FOUNTAINS



J-1326



J-1328

## J-1326

Pedestal Drinking Fountain with Extra Heavy Vitreous China Bowl Fitted with Vertico-Slant Stream Drinking Head, Cast Iron Pedestal, Nickel-plated Self-closing Ball-bearing Four-arm Handle Stop, Nickel-plated Loose Key Angle Stop, Galvanized Iron Waste and Supply Pipe to Floor.

Height to Top of Bowl 36 Inches      Diameter of Bowl 12 Inches  
Diameter of Base 15 Inches

Price, with Enameled Pedestal.....	54.75
“ “ Painted “ .....	46.00

Can furnish to order in 30-inch height.

## J-1328

Pedestal Drinking Fountain with Extra Heavy Vitreous China Bowl Fitted with Vertico-Slant Stream Drinking Head, Nickel-plated Short Supply Pipe with Loose Key Stop, Foot Operated Push Button Control Valve Concealed in Floor, and Galvanized Iron Waste and Supply Pipes.

Height to Top of Bowl 36 Inches      Diameter of Bowl 12 Inches  
Diameter of Base 15 Inches

Price, with Enameled Pedestal.....	61.75
“ “ Painted “ .....	53.00

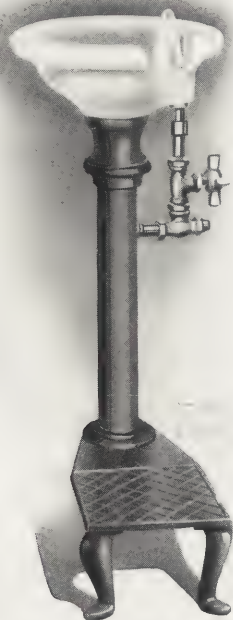
Can furnish to order in 30-inch height.

For copious drinking the Vertico-Slant equals the vertical stream. The mouth of the user, 2 inches to one side of the nozzle, prevents the water falling back upon it. The nozzle cannot be touched by the lips and makes this a sanitary fountain. It uses less water than the old style drinking head, and a greatly reduced pressure puts the fountain out of use before it can become a menace to health.



## DRINKING FOUNTAINS

PATENTED



J-1330



J-1332

### J-1330

Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head on Painted Iron Pedestal, with Step 6 inches high, Self-closing Ball-bearing Four-arm Handle Stop, Loose Key Stop, Galvanized Iron Supply and Waste Pipe.

Height to Top of Bowl 30 inches      Diameter of Bowl 12 inches

Price, as described..... 35.50

### J-1332

Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head on Painted Iron Pedestal, Self-closing Ball-bearing Four-arm Handle Stop, Loose Key Stop, Galvanized Iron Supply and Waste Pipe.

Height to Top of Bowl 30 inches      Diameter of Bowl 12 inches

Price, as described..... 32.50

Can furnish pedestals in any height.

Glass or cup readily filled from this stream.

Can furnish self-closing faucet on side of pedestals for filling bottles or pails at an additional charge.

## DRINKING FOUNTAINS



**J-1334**



**J-1336**

### J-1334

Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head on 2½-inch Galvanized Pipe Pedestal, Loose Key Stop.

Height to Top of Bowl 26 inches      Diameter of Bowl 12 inches  
Diameter of Base 12 inches

Price, as described .....	35.00
If with Foot Valve Control in Floor, add .....	7.00
Can be furnished with self-closing stop at an additional charge.	

### J-1336

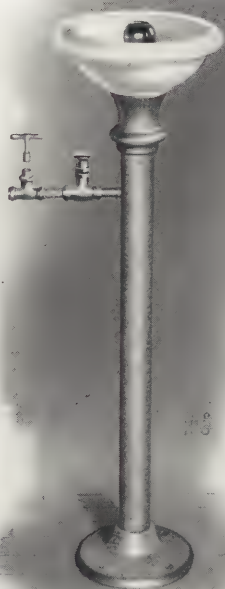
Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head on 2-inch Galvanized Pipe Pedestal, Self-closing Ball-bearing Four-arm Handle Stop, Loose Key Stop and Self-closing Ball-bearing Faucet on Side for Filling Bottles or Pails.

Height to Top of Bowl 36 inches      Diameter of Bowl 12 inches  
Diameter of Base 9 inches

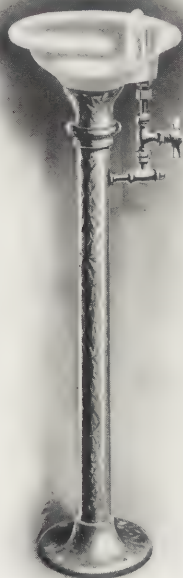
Price, as described .....	37.50
If with Foot Valve Control in Floor, add .....	7.00
Can furnish pedestals in any height.	

## DRINKING FOUNTAINS

PATENTED



J-1338



J-1340

### J-1338

Extra Heavy Vitreous China Bowl on 2-inch Galvanized Pipe Pedestal, Nickel-plated Cast Brass Bubbling Head, Self-closing Push Button Stop and Loose Key Stop.

Height to Top of Bowl 36 inches      Diameter of Bowl 12 inches  
Diameter of Base 9 inches

Price, as described..... 21.50  
If with Foot Valve Control in Floor, add..... 7.00

### J-1340

Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head on 2-inch Galvanized Pipe Pedestal, Self-closing Ball-bearing Four-arm Handle Stop and Loose Key Stop.

Height to Top of Bowl 36 inches      Diameter of Bowl 12 inches  
Diameter of Base 9 inches

Price, as described..... 30.00  
If with Foot Valve Control in Floor, add..... 7.00

For copious drinking the Vertico-Slant equals the vertical stream. Mouth of user 2 inches to one side of nozzle prevents water falling back upon it. Uses less water than old style drinking head. Nozzle cannot be touched by the lips. Greatly reduced pressure puts fountain out of use before it can become a menace to health.

## DRINKING FOUNTAINS

PATENTED



**J-1342**



**J-1344**

### J-1342

Extra Heavy Vitreous China Bowl on 1½-inch Galvanized Pipe Pedestal, Nickel-plated Cast Brass Bubbling Head with Lever Handle Ball Bearing Self-closing Stop, Galvanized Waste to discharge into Sink. Side Supply Connection furnished with Loose Key Stop.

Height to Top of Bowl 42 inches      Diameter of Bowl 9½ inches  
Diameter of Base 6 inches

Price, as described.....	21.00
If with Foot Valve Control in Floor, add.....	7.00
Can furnish pedestal in any height.	

### J-1344

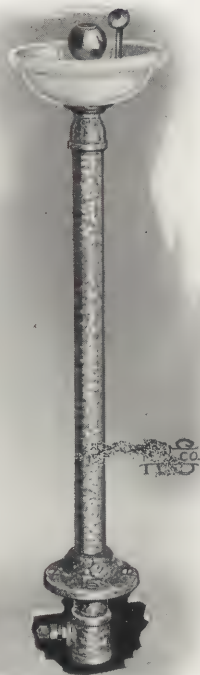
Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head on 2-inch Galvanized Pipe Pedestal, Self-closing Ball-bearing Four-arm Handle Stop, Loose Key Stop, Galvanized Iron Waste to discharge into Sink.

Height to Top of Bowl 42 inches      Diameter of Bowl 12 inches  
Diameter of Base 9 inches

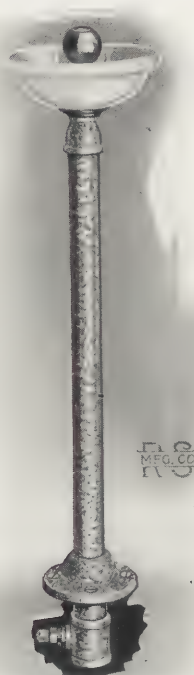
Price, as described.....	32.00
If with Foot Valve Control in Floor, add.....	7.00
Can furnish pedestal in any height.	



## DRINKING FOUNTAINS



J-1346



J-1348

### J-1346

Extra Heavy Vitreous China Bowl on 1½-inch Galvanized Pipe Pedestal, Nickel-plated Cast Brass Bubbling Head with Lever Handle Ball-bearing Self-closing Stop.

Height to Top of Bowl 36 inches    Diameter of Bowl 9½ inches  
Diameter of Base 6 inches

Price, as described..... 17.55  
If with By-pass allowing small amount of water to run constantly, add. 1.50

Can furnish pedestal in any height.

### J-1348

Extra Heavy Vitreous China Bowl on 1½-inch Galvanized Pipe Pedestal, Nickel-plated Cast Brass Bubbling Head.

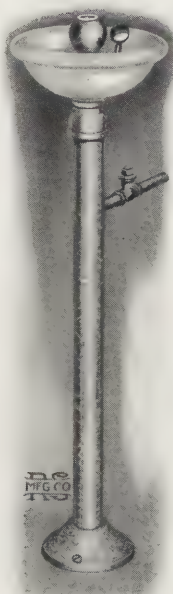
Height to Top of Bowl 36 inches    Diameter of Bowl 9½ inches  
Diameter of Base 6 inches

Price, as described..... 14.00

Can furnish pedestal in any height.

Slant stream drinking heads or ones with water pressure regulator or vertical stream china ones, can be furnished with the above fountains at an additional charge.

## DRINKING FOUNTAINS



J-1350



J-1352

### J-1350

Extra Heavy Vitreous China Bowl on 1½-inch Galvanized Pipe Pedestal, Nickel-plated Cast Brass Bubbling Head with Lever Handle Ball-bearing Self-closing Stop, Galvanized Side Supply with Loose Key Stop.

Height to Top of Bowl 36 inches      Diameter of Bowl 9½ inches      Diameter of Base 6 inches

Price, as described. . . . . 19.00

### J-1352

Extra Heavy Vitreous China Bowl on 1½-inch Galvanized Pipe Pedestal, Nickel-plated Cast Brass Bubbling Head with Volume Regulator, Extra Heavy Cast Iron Painted Base, with Dog Basin.

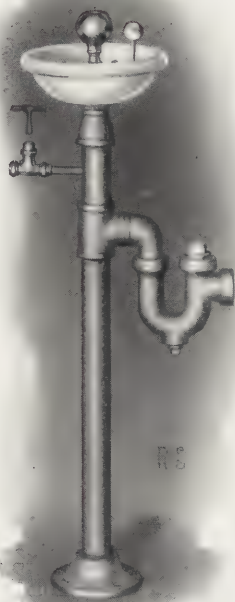
Height to Top of Bowl 36 inches      Diameter of Bowl 9½ inches      Diameter of Base 9 inches

Price, as described. . . . . 23.00

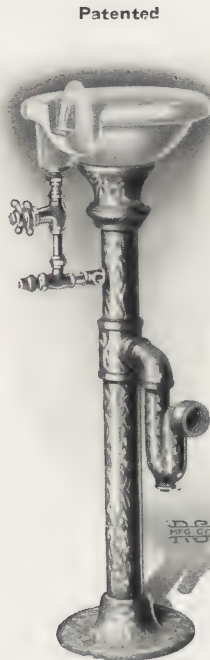
Can furnish pedestals in any height.

Slant stream drinking heads or vertical stream china ones or extra heavy large china bowls with Vertico-Slant Stream Drinking Jet, can be furnished with the above fountains at an additional charge.

## DRINKING FOUNTAINS



J-1354



J-1356

### J-1354

Extra Heavy Vitreous China Bowl on 1½ inch Galvanized Pipe Pedestal, Nickel-plated Cast Brass Bubbling Head with Lever Handle Ball-bearing Self-closing Stop, Galvanized Side Supply with Loose Key Stop, Galvanized Iron Trap with Brass Cleanout Screw and Vent Opening.

Height to Top of Bowl 36 inches    Diameter of Bowl 9½ inches    Diameter of Base 6 inches

Price, as described..... **23.50**

Slant stream drinking heads or ones with water pressure regulator, vertical stream china heads or extra heavy large china bowls with Vertico-Slant Stream Drinking Jet, can be furnished with the above fountain at an additional charge.

### J-1356

Extra Heavy Vitreous China Bowl with Vertico-Slant Stream Drinking Head on 2-inch Galvanized Pipe Pedestal, Self-closing Ball bearing Four-arm Handle Stop, Loose Key Stop with ¾-inch Tee for supply to wall, and 1¼-inch Galvanized Iron Trap with Brass Cleanout Screw.

Height to Top of Bowl 36 inches    Diameter of Bowl 12 inches    Diameter of Base 9 inches

Price, as described..... **35.00**

Can furnish pedestals in any height.

## DRINKING FOUNTAINS



J-1358

Two Extra Heavy Vitreous China Bowls on Galvanized Pipe Pedestal, China Bubbling Heads, Galvanized Supply and Waste Pipe with Extra Heavy Flange.

Diameter of Bowls 9½ inches  
Diameter of Base 12 inches  
Height to Top of Bowls 30 inches  
Vertical Shaft of 2½-inch Galvanized Pipe  
Horizontal Shaft of 1½-inch Galvanized Pipe  
Galvanized Supply Pipe, ½-inch

Price, as described. **34.50**  
If with Two-Lever Handle Ball-bearing Self-closing Stops, add. ... **7.10**

Pedestal can be furnished in any height.

Two Extra Heavy Vitreous China Bowls with Vertico-Slant Stream Drinking Heads on Galvanized Pipe Pedestal, Push Button Self-closing Foot Valve Control with Loose Key Stop for Each Head, Galvanized Waste and Supply Pipe with Extra Heavy Flange.

Diameter of Bowls 12 inches  
Diameter of Base 12 inches  
Height to Top of Bowls 30 inches  
Vertical Shaft of 2½-inch Galvanized Pipe  
Horizontal Shaft of 1½-inch Galvanized Pipe  
Galvanized Supply Pipe, ½-inch

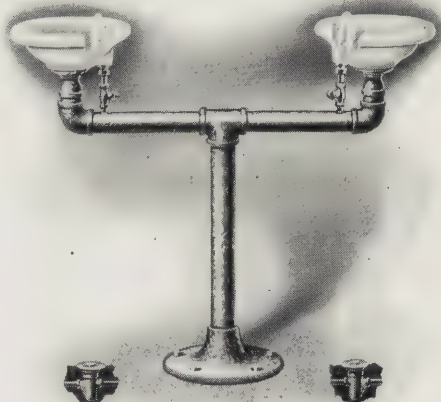
Price, as described. .... **70.00**  
If with Nickel-plated Self-closing Ball-bearing Stops instead of Foot Valves, deduct. .... **14.00**

Pedestal can be furnished in any height.

Glass or cup readily filled from this stream.

For copious drinking the Vertico-Slant equals the vertical stream. Mouth of user 2 inches to one side of nozzle prevents water falling back upon it. Uses less water than old style drinking head. Nozzle cannot be touched by the lips. Greatly reduced pressure puts fountain out of use before it can become a menace to health.

PATENTED



J-1360



## DRINKING FOUNTAINS



J-1362

Cast Iron Enameled All Over Roll Rim Bowl with Three China Slant Stream Bubbling Heads and Three Volume Regulators, Iron Pipe Size Brass Nickel-plated Pipe securely Bolted to Roll Rim, Nickel-plated Brass Strainer with Galvanized Iron Waste and Supply to Floor, Nickel-plated Brass Loose Key Stop, Painted Iron Pedestal.

Height to Top of Bowl 36 inches      Diameter of Bowl 24 inches

Price, as described. . . . . 70.00

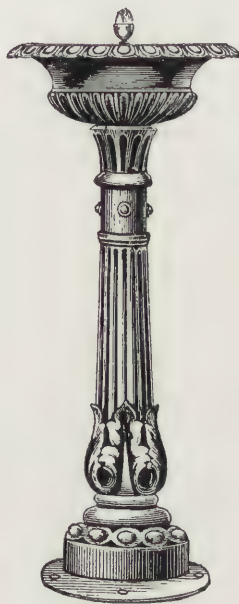
Pedestal can be furnished in any height.

Cement or marble block as shown is not furnished, but is shown as a suggestion for the use of small children.

## DRINKING FOUNTAINS



J-1364



J-1366



J-1368

### J-1364

Cast Iron Frost-Proof Drinking Fountain, with Self-Closing Pedal Control and Nickel-plated Bubbling Head.

Length, for setting in Ground.....feet	3	4	5	6
Price, as described.....each	37.00	39.00	41.00	43.00

### J-1366

Cast Iron Drinking Fountain, for Stone Mounting, with Nickel-plated Brass Bubbling Head.

Height, 33 inches.	Diameter of Basin, 13½ inches.	Diameter of Base, 9½ inches.	
Price, as described, Painted.....			54.00

If furnished with Self-Closing Valve, add..... 3.55

### J-1368

Cast Iron Drinking Fountain, for Stone Mounting, with Nickel-plated Brass Bubbling Head.

Height, 38 inches.	Diameter of Basin, 18 inches.	Diameter of Base, 9 inches.	
Price, as described, Painted.....			72.00

If furnished with Self-Closing Valve, add..... 3.55

## WATER CLOSETS

### EJECTOR WALL CLOSETS



J-1460

Vitreous China Ejector Wall Hung Bowl with Lip and Back Supply Supported on Built-in Closet Carrier with Adjustable Wall Plate and Under-floor Base, Concealed Rough Brass Flush Valve, 1-inch Ground Joint Union Straight Stop, China Oscillating Handle through Wall, 1½-inch O. D. Flush Elbow Connection, Mahogany Finish Extended Front Two-piece Open Front and Back Seat with Nickel-plated Heavy Bar Hinge

Price, as described.....

105.00

Specify which style of carrier is desired when ordering:

Type A carrier for connection to lead bend or soil pipe.

Type F carrier with wrought nipple for 4-inch screw pipe fitting.

**Type A**



J-1462

#### PATENTED CLOSET CARRIERS

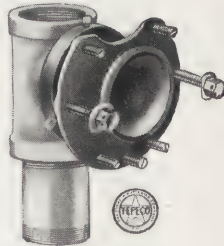
##### TYPE A, FOR SOIL PIPE

This device is concealed and built into floor and wall and carries the closet free from the floor without placing any weight on the wall structure, or pipe connections.

##### TYPE F, FOR SCREWED PIPE

This carrier provides a very rigid and easy installation. It is used on screw pipe systems made up with drainage fittings. A threaded nipple is furnished on which the adjustable gasket cup and carrier plate is screwed.

**Type F**



J-1464

## WATER CLOSETS

### EJECTOR WALL CLOSETS



J-1474

Vitreous China Ejector Wall Hung Bowl with Lip and Side Supply, supported on Built-in Closet Carrier with Adjustable Wall Plate and under Floor Base, Nickel-plated Brass Royal Flush Valve with Back Inlet, 1-inch Ground Joint Union Straight Stop, China Oscillating Handle, 1½-inch O. D. Elbow Flush Connection, Mahogany Finish Extended Front Two-piece Open Front and Back Seat with Nickel-plated Heavy Bar Hinge.

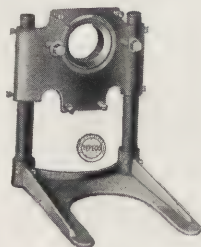
Price, as described, ..... 125.00

Specify which style of carrier is desired when ordering.

Type A carrier for connection to lead bend or soil pipe.

Type B carrier with wrought nipple for 4-inch screw pipe fitting.

Type A



J-1476

### PATENTED CLOSET CARRIERS

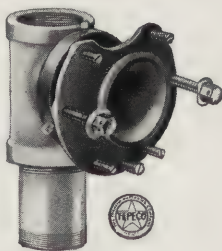
#### TYPE, A, FOR SOIL PIPE

This device is concealed and built into floor and wall and carries the closet free from the floor without placing any weight on the wall structure, or pipe connections.

#### TYPE F, FOR SCREWED PIPE

This carrier provides a very rigid and easy installation. It is used on screw pipe systems made up with drainage fittings. A threaded nipple is furnished on which the adjustable gasket cup and carrier plate is screwed.

Type F



J-1478



**WATER CLOSETS**

**SYPHON JET**

**ITASCA LIP**



**J-1480**

Syphon Jet Bowl Vitreous Ware about 13½ inches High, with Lip and Webster Arm, Special Open Front Oak Seat with Cast Brass Reinforcing Ring, Extra Large Bumpers, Government Pattern Hinge, Concealed Flush Valve with Oscillating Handle through Wall, Rough Brass Stop, Flush Pipe, Floor Screws and Washers.

Price, as described..... **72.00**

Nickel-plated Brass instead of China Handle can be furnished if desired. Concealed Tank can be furnished instead of Flush Valve.

## WATER CLOSETS

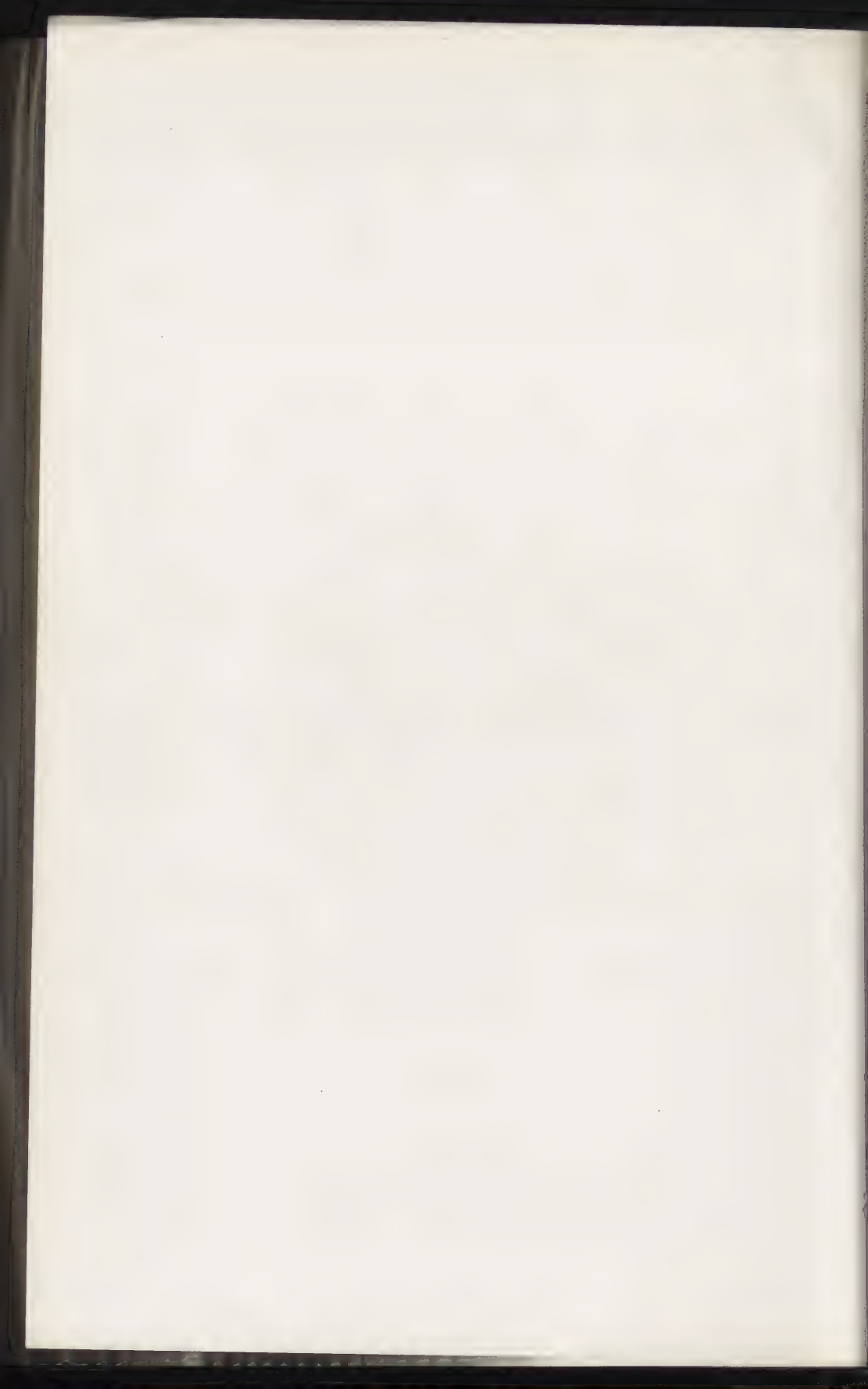
SYPHON JET

ITASCA



**J-1481**

Syphon Jet Bowl Vitreous Ware Webster Arm, all White Seat with Cover, Concealed Flush Valve with Oscillating Handle through Wall, Rough Brass Stop, Flush Pipe, Floor Screws and Washers, China Bolt Caps.



## WATER CLOSETS

### SYPHON JET

#### ITASCA-LIP



J-1482

Syphon Jet Bowl Vitreous Ware about 13½ Inches High, with Lip and Webster Arm, Open Front and Back Whalebonite Seat with Brass Hinge, Covered White, Extra Large Bumpers, Concealed Flush Valve with Stop placed in Heavy Galvanized Iron Wall Box with Galvanized Iron Face Plate, Pyralin Covered, Rough Brass Flush Pipe, China Bolt Caps.

Price, as described..... 92.00



## WATER CLOSETS

### SYPHON JET—SEAT-OPERATING

ITASCA-LIP



J-1484

Syphon Jet Bowl "Vitreous Ware" about 13½ inches High, with Lip and Webster Arm, Special Open Front Oak Seat with Cast Brass Reinforcing Ring, Extra Large Bumpers, Government Pattern Hinge, Cast Iron Enameled Inside Seat-Operating Tank with "Compacto" Trimmings and Stop, Rough Brass Flush Pipe, Seat-Operating Rod, Floor Screws and Washers.

Price, as described..... 77 00

## WATER CLOSETS

### SYPHON JET WITH ROYAL FLUSH VALVE

ITASCA-LIP



J-1486

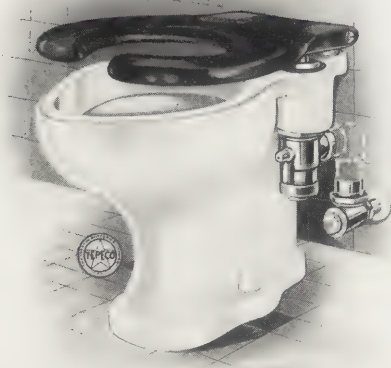
Vitreous China Syphon Jet Bowl 13½-inch, Extended Back and Extended Sanitary Lip, Open Front and Back, Whale-Bone-Itte Seat with Nickel-plated Brass Bar Hinge with Seat-operating Attachment. Royal Flush Valve with Stop Bolts and Washers.

Price, as described..... 80.00

## WATER CLOSETS

### SYPHON JET

#### SANTO



Vitreous China Syphon Jet Bowl with Extended Lip, Automatic Seat Action Pressure Valve with Angle Shut-off Stop and Coupling for 1¼-inch Iron Pipe Supply, Open Front, Natural Oak Seat with Concealed Bar Axle Hinge, Nickel-plated Brass Wall Escutcheon and China Bolt Caps.

Price, as described..... **78.00**

This closet may be furnished without extended lip also in juvenile height.

J-1488

### SYPHON WASHDOWN

#### NEVO

Vitreous China Syphon Wash Down Bowl with Jet and Extended Lip, Automatic Seat Action Pressure Valve with Angle Shut-off Stop and Coupling for 1¼-inch Iron Pipe Supply, Natural Oak, Open Front Seat with Concealed Bar Axle Hinge, Nickel-plated Wall Escutcheon and China Bolt Caps.

Price, as described..... **67.00**



J-1490

## WATER CLOSETS

### SYPHON JET

#### ITASCA



J-1492

Syphon Jet Bowl "Vitreous Ware" Birch Mahogany Finish Seat and Cover, Nickel-plated Lever Handle Flush Valve with Stop, Floor Bolts and Washers.

Price, as described..... 50.00

Bowl with Lip can be furnished at an extra charge when ordered.



## WATER CLOSETS

### SYPHON JET

#### JUVENETTE



**J-1494**

Syphon Jet Bowl Vitreous Ware, 13 inches High, Birch Mahogany Finish Seat with Cover and Nickel-plated Bar Hinge, Nickel-plated Royal Flush Valve with China Lever Handle and Loose Key Stop, Floor Screws and Washers, China Bolt Caps.

Price, as described..... **55.00**

The above closet can be furnished 10 or 15 inches high at same price.

Can also be furnished without cover and with open front seat when desired.

## **WATER CLOSETS**

**REVERSE TRAP WASH DOWN**

**DELTAX**



**J-1495**

Reverse Trap Syphon Wash Down Closet, Side Spud and Concealed Jet with Nickel Plated Brass, Sloan Flush Valve with China Oscillating Handle and Stop, Birch Mahogany Finish Seat and Cover, Screws and Washers, China Bolt Caps.

208-B

RUNDLE-SPENCE MFG. CO. MILWAUKEE, WIS.

## WATER CLOSETS

REVERSE TRAP WASH DOWN

DELTAX-LIP



J-1497

Reverse Trap Syphon Wash Down Closet with Extended Front Lip and Side Spud, and Concealed Jet, Nickel Plated Sloan Flush Valve with Oscillating China Handle and Straight Stop, Oak Open Front Seat with Government Pattern Hinge and Cast Brass Reinforcing Plate, Screws and Washers, and China Bolt Caps.





## WATER CLOSETS

### SYPHON JET SI-WEL-CLO



J-1498

Vitreous China Noiseless Syphon Jet Bowl with Extended Lip, Special Finish White Open Front Seat and Cover with Concealed Bar Hinge and China Covered Seat Posts, Vitreous China Straight Front Tank with Faultless Brass Flush Valve, Rough Plated All Over and Bottom China Pull, Hy-Lo Noiseless Ball Cock with Stop through Back of Tank, Concealed Supports, Concealed Flush Connection with China Casing and China Bolt Caps.

Price, as described..... 130.00

" with Mahogany Seat.....

The extremely quiet operation of the Si-wel-clo bowl overcomes a source of daily annoyance to the house-owner especially when guests are present. The flush valve in the tank operates quietly with buoyant copper float and outlet plug with leather disc. The silent Hy-Lo ball cock eliminates that noisy gurgle heard when the tank is discharging or refilling.

## WATER CLOSETS

### SYPHON JET

#### SI-WEL-CLO



J-1500

Vitreous China Noiseless Syphon Jet Bowl, with Raised Rear Vent, Special Finish White Seat and Cover with Concealed Bar Hinge and China Covered Seat Posts, Vitreous China Straight Front Tank with Faultless Brass Flush Valve, Rough Plated All Over and Bottom China Pull, Hy-Lo Noiseless Ball Cock with Stop through Back of Tank, Concealed Supports, Concealed Flush Connections with China Casing and China Bolt Caps. Price, as Described..... **150.00**

“ with Mahogany Seat.....  
 If with Nickel-plated Exposed Bottom Supply Pipe, add.....

The extremely quiet operation of the Si-wel-clo bowl overcomes a source of daily annoyance to the house-owner especially when guests are present. The flush valve in the tank operates quietly with a buoyant copper float and outlet plug with leather disc. The silent Hy Lo Ball Cock eliminates that noisy gurgle heard when the tank is discharging or refilling.

## WATER CLOSETS

### SYPHON JET

SI-WEL-CLO



J-1502

Vitreous China Noiseless Syphon Jet Bowl, Special Finish White Seat and Cover with Concealed Bar Hinge and China Covered Seat Posts, Vitreous China Straight Front Tank with Faultless Brass Flush Valve, Rough Plated All Over and Bottom China Pull, Hy-Lo Noiseless Ball Cock with Stop through Back of Tank, Concealed Supports, Concealed Flush Connections with China Casing and China Bolt Caps.

Price, as Described .....	122.00
“ with Mahogany Seat .....	

The extremely quiet operation of the Si-wel-clo bowl overcomes a source of daily annoyance to the house-owner especially when guests are present. The flush valve in the tank operates quietly with Buoyant Copper float and outlet plug with leather disc. The silent Hy-Lo ball cock eliminates that noisy gurgle heard when the tank is discharging or refilling.

**WATER CLOSETS**

**SYPHON JET**

ITASCA ALL WHITE



**J-1504**

Syphon Jet Bowl Vitreous Ware, Low Tank Vitreous Ware with Bottom China Pull, Noiseless Ball Cock with Stop through Back of Tank, Concealed Flush Connection with China Casing, Cello Seat and Cover with Concealed Bar Hinge, White Seat Posts and White Rubber Bumpers, China Bolt Caps.

Price, as described..... **85.00**



## WATER CLOSETS

### SYPHON JET

ITASCA



J-1506

Syphon Jet Bowl Vitreous Ware, Low Tank Vitreous Ware, Noiseless Ball Cock, Nickel-plated Supply Pipe with Stop, Concealed Flush Connection with China Casing, Cello Seat and Cover with Brass Hinges Covered White, China Bolt Caps.

Price, as described..... 70.00

# WATER CLOSETS

## SYPHON JET

### ITASCA-LIP



J-1508

Syphon Jet Bowl Vitreous Ware with Lip, Birch Mahogany Finish Open Front Seat without Cover, with Nickel-plated Bar Hinge, Cast Brass Reinforcing Ring and Large Bumpers, Low Tank Vitreous Ware, Full Elevated Ball Cock, Nickel-plated Supply Pipe to Wall with Stop, Nickel-plated Flush Connection, Floor Screws and Washers.

Price, as described.....	67.00
If with Noiseless Ball Cock, add. ....	2.00

## WATER CLOSETS

### SYPHON JET

COMO



J-1510

Saddle Top Syphon Jet Bowl Vitreous Ware with Lip, Birch Mahogany Finish Open Front and Back Seat with Nickel-plated Bar Hinge, Low Tank Vitreous Ware, Full Elevated Ball Cock, Nickel-plated Supply Pipe with Stop, Nickel-plated Flush Connection, Floor Screws and Washers.

Price, as described..... 75.00

If with Noiseless Ball Cock, add..... 2.00

## WATER CLOSETS

### SYPHON JET

#### MENDOTA



J-1512

Syphon Jet Bowl Vitreous Ware, Birch Mahogany Finish Seat and Cover, with Nickel-plated Bar Hinge, Low Tank Vitreous Ware, Full Elevated Ball Cock, Nickel-plated Flush Connection, Nickel-plated Supply Pipe with Stop, Floor Screws and Washers.

Price, as described..... 53.00

If with Noiseless Ball Cock, add ..... 2.00



## WATER CLOSETS

### SYPHON WASH DOWN

#### DELTA-LIP



J-1514

Syphon Wash Down Bowl Vitreous Ware with Lip, Enameled Inside and Outside Cast Iron Low Tank with Seat-operated Flush Valve, Full Elevated Ball Cock, Oak Open Front Seat with Cast Brass Bar Hinge Reinforcing Plate and Large Bumpers, Nickel-plated Supply Pipe with Stop, Nickel-plated Flush Connection, Floor Screws and Washers.

Price, as described.....	60.00
If with Noiseless Ball Cock, add.....	2.00

## WATER CLOSETS

### SYPHON WASH DOWN

#### DELTA-LIP



J-1516

Syphon Wash Down Bowl Vitreous Ware with Lip, Oak Open Front Self-raising Seat with Nickel-plated Bar Hinge, Balance Weights, Reinforcing Ring and Large Bumpers, Enameled Inside and Outside Cast Iron Low Tank, Full Elevated Ball Cock, Nickel-plated Supply to Wall with Stop, Nickel-plated Flush Connection, Floor Screws and Washers.

Price, as described..... 55.00

If with Noiseless Ball Cock, add..... 2.00

## WATER CLOSETS

### SYPHON WASH DOWN

#### DELTA-LIP



J-1518

Syphon Wash Down Bowl, Vitreous Ware with Lip, Oak Open Front Seat with Nickel-plated Self-raising Spring Hinges, Enameled Inside and Outside Cast Iron Low Tank, Full Elevated Ball Cock, Nickel-plated Supply Pipe with Stop, Nickel-plated Flush Connection, Floor Screws and Washers.

Price, as described.....	50.00
If with Noiseless Ball Cock, add.....	2.00

## WATER CLOSETS

### SYPHON WASH DOWN

#### DELTA-LIP



J-1520

Syphon Wash Down Bowl Vitreous Ware with Lip, Oak Open Front Seat with Nickel-plated Bar Hinge and Cast Brass Reinforcing Ring, Large Bumpers, Low Tank Vitreous Ware, Full Elevated Ball Cock, Nickel-plated Flush Connection, Nickel-plated Supply Pipe with stop, Floor Screws and Washers.

Price, as described. . . . . 55.00

If with Noiseless Ball Cock, add. . . . . 2.00



## WATER CLOSETS

### SYPHON WASH DOWN

DELTA



J-1522

Syphon Wash Down Bowl Vitreous Ware, Oak Seat and Cover with Nickel-plated Bar Hinge, Low Tank Vitreous Ware, Full Elevated Ball Cock, Nickel-plated Flush Connection, Nickel-plated Supply Pipe to Wall with Stop, Floor Screws and Washers.

Price, as described..... 45.00

If with Noiseless Ball Cock, add..... 2.00

## WATER CLOSETS

### SYPHON WASH DOWN

#### NOMA-LIP



J-1524

Syphon Wash Down Bowl Vitreous Ware with Lip, Oak Open Front Seat with Nickel-plated Bar Hinge and Cast Brass Reinforcing Ring, Large Bumpers, Low Tank Vitreous Ware, Full Elevated Ball Cock, Nickel-plated Flush Connection, Nickel-plated Supply Pipe with Stop, Floor Screws and Washers.

Price, as described..... 48.00

If with Noiseless Ball Cock, add..... 2.00

## WATER CLOSETS

SYPHON WASH DOWN

NOMA



J-1526

Syphon Wash Down Bowl Vitreous Ware, Oak Seat and Cover with Nickel-plated Bar Hinge, Low Tank Vitreous Ware, Full Elevated Ball Cock, Nickel-plated Flush Connection, Nickel-plated Supply Pipe with Stop, Floor Screws and Washers.

Price, as described..... 40.00

If with Noiseless Ball Cock, add..... 2.00

## WATER CLOSETS

### SYPHON WASH DOWN

NOMA



J-1528

Syphon Wash Down Bowl Vitreous Ware, Oak Open Front Seat with Nickel-plated Bar Hinge, Enameled Inside and Outside Cast Iron Low Tank, Full Elevated Ball Cock, Nickel-plated Supply Pipe to Wall with Stop, Nickel-plated Flush Connection, Nickel-plated Floor Screws and Washers.

Price, as described.....	37.00
If with Noiseless Ball Cock, add .....	2.00



## WATER CLOSETS

### SYPHON JET

COMO



J-1530

Saddle Top Syphon Jet Bowl Vitreous Ware with Lip, Birch Mahogany Finish Seat, Nickel-plated Flush Pipe, Cast Iron Tank Enameled Inside and Outside Top Supply with Stop, Ball Joint Chain Guide, Linked Rod, Opal Pull, Floor Screws and washers.

Price, as described. . . . . 70.00

Cello Covered Seat can be furnished at an extra charge when ordered.

**WATER CLOSETS**  
**SYPHON JET—SEAT-OPERATING**  
**ITASCA—LIP**



**J-1532**

Syphon Jet Bowl Vitreous Ware about 13½ inches High with Lip, Cast Iron Tank En-ameled Inside and Outside with Seat-operating Compact Trimmings and Stop, Nickel-plated Brass Flush Pipe and Operating Rod, Special Open Front Oak Seat with Nickel-plated Cast Brass Reinforcing Ring, Floor Screws and Washers.

Price, as described ..... **70.00**

**WATER CLOSETS**  
**SYPHON WASH DOWN—SEAT-OPERATING**  
 DELTA-LIP

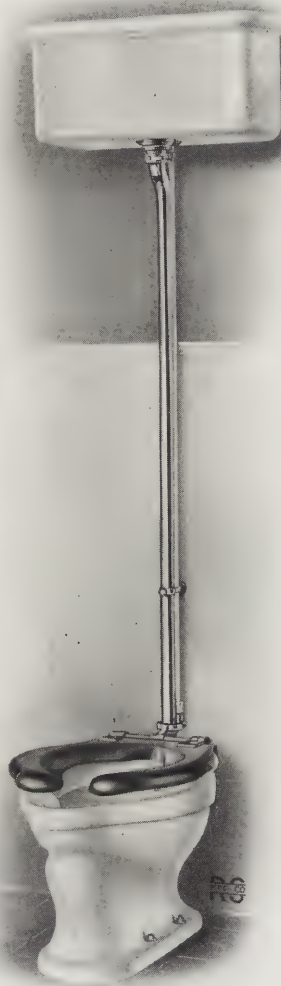


J-1534

Syphon Wash Down Bowl "Vitreous Ware," with Lip, Cast Iron Tank Enameled Inside and Outside having Seat-Operating "Compacto" Trimmings and Stop, Nickel-plated Brass Flush Pipe, Seat-Operating Rod, Special Open Front Oak Seat with Cast Brass Re-enforcing Ring, Extra Large Bumpers, Government Pattern Hinge, Floor screws and washers.

Price, as described. . . . . 60.00

**WATER CLOSETS**  
**SYPHON WASH DOWN—SEAT-OPERATING**  
NORMA



**J-1536**

Syphon Wash Down Bowl Extra Heavy "Vitreous Ware" with Lip and Jet, about 13½ inches High, Cast Iron Tank Enameled Inside and Outside having Seat-Operating "Compacto" Trimmings and Stop, Nickel-plated Brass Flush Pipe, Seat-Operating Rod, Special Open Front Oak Seat with Cast Brass Re-enforcing Ring, Extra Large Bumpers, Government Pattern Hinge, Cast Iron Floor Flange, Asbestos Gasket and Bolts.

**70.00**

Made compact and extra heavy for factory or school service.



**WATER CLOSETS****SYPHON WASH DOWN**

NORMA

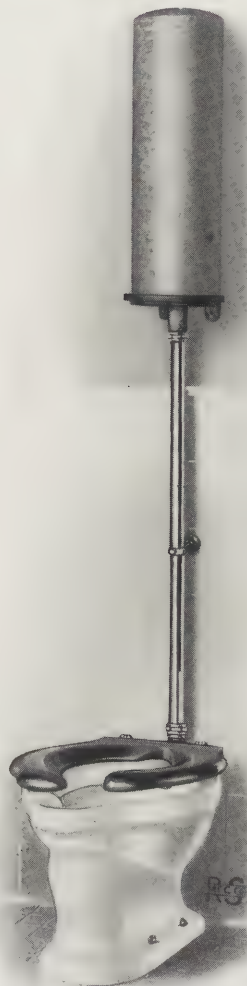
**J-1538**

Syphon Wash Down Bowl Extra Heavy "Vitreous Ware" with Lip and Jet about 13½ inches High, Cast Iron Tank Enameled Inside and Outside with Stop, Nickel-plated Brass Chain Guide with Rod and Ring, Nickel-plated Brass Flush Pipe, Special Open Front Oak Seat attached to Bowl with Government Pattern Hinge, Cast Brass Re-enforcing Ring, Extra Large Bumpers, Cast Iron Floor Flange, Asbestos Gasket and Bolts.

Price, as described..... **65.00**

Made compact and extra heavy for factory or school service.

**WATER CLOSETS**  
**SYPHON WASH DOWN—SEAT-OPERATING**  
**NORMA**



**J-1540**

Syphon Wash Down Bowl Extra Heavy "Vitreous Ware" with Lip and Jet about 13½ inches High, R-S Seat-Operating Valve, N. P. Flush Pipe, Stop, Galv. Iron Pressure Tank, Special Open Front Oak Seat attached to Bowl with Heavy Pattern N. P. Brass Hinge, Cast Brass Re-enforcing Ring with Extra Large Bumpers, Cast Iron Floor Flange, Asbestos Gasket and Bolts.

Price, as described. . . . . **66.00**

Pressure Tank Closet should not be used where Water Pressure is less than 25 Pounds or with Small Diameter Main Supply Pipe.

R-S SEAT-OPERATING VALVE SO CONSTRUCTED THAT IT MAY BE REPAIRED WITHOUT DISCONNECTING FROM THE CLOSET BOWL.

## WATER CLOSETS

### SYPHON WASH DOWN—SEAT OPERATING

NORMA



J-1542

The self-raising seat shown above may be furnished with closet combination F1071B, at additional charge.

J-1544

Syphon Wash Down Bowl Extra Heavy Vitreous Ware with Lip and Jet, 13½-inch High, R-S Seat-operating Valve with Nickel-plated Exposed Flush Connection, Concealed Rough Brass Flush Pipe, Stop, Galvanized Iron Pressure Tank, Special Open Front Oak Seat attached to Bowl with Heavy Pattern Nickel-plated Brass Hinge, Cast Brass Reinforcing Ring with Extra Large Bumpers, Floor Flange, Asbestos Gasket and Bolts.

Price, as described . . . . . 70.00



J-1544

Pressure Tank Closet should not be used where Water Pressure is less than 25 Pounds or with Small Diameter Main Supply Pipe.

**WATER CLOSETS**  
**IMPROVED TRIDENT WASH DOWN—SEAT-OPERATING**  
**FOR FACTORY SERVICE**



J-1546

Trident Wash Down Bowl Heavy Vitreous Ware with Lip and Extra Large Water-way, Enameled Inside and Outside Cast Iron Tank, Seat-operating Compacto Trimmings and Stop, Brass Flush Pipe, Seat-operating Rod, Special Open Front Oak Seat, with Government Pattern Hinge, Cast Brass Reinforcing Ring with Large Bumpers, Floor Flange, Asbestos Gasket and Bolts. All exposed brass work rough nickel finish.

Price, as described ..... 65.00

Exposed brass work can be furnished polished and nickel-plated when so ordered.



RS  
 RS

## WATER CLOSETS

### IMPROVED TRIDENT WASH DOWN FOR FACTORY SERVICE



J-1548

Trident Wash Down Bowl Heavy Vitreous Ware with Lip and Extra Large Waterway, Enameled Inside and Outside Cast Iron Tank, with Stop, Galvanized Iron Chain Guide with Special Pull, Brass Flush Pipe, Special Open Front Oak Seat with Government Pattern Hinge, Cast Brass Reinforcing Ring with Bumpers, Floor Flange, Asbestos Gasket and Bolts. All Exposed Brass Work, Rough, Nickel Finish.

Price, as described..... 60.00

**Exposed brass work can be furnished polished and nickel-plated when so ordered.**

**WATER CLOSETS**  
**IMPROVED TRIDENT WASH DOWN**  
**FOR FACTORY SERVICE**



J-1550

Trident Wash Down Bowl Heavy Vitreous Ware with Lip and Extra Large Waterway, Flush Valve with China Lever Handle. Compression Loose Key Stop, Special Open Front Oak Seat with Government Pattern Hinge, Cast Brass Reinforcing Ring with Extra Large Bumpers, Floor Flange, Asbestos Gasket and Bolts. All Exposed Brass Work Rough Nickel Finish.

Price, as described ..... 54.00

**Exposed brass work can be furnished polished and nickel-plated when so ordered.**

**WATER CLOSETS****EXTRA HEAVY WASH DOWN****PRISON COMBINATION****J-1552**

Wash Down Bowl, Extra Heavy Vitreous Ware with Integral Seat, Cast Iron Threaded Wall Flange with Asbestos Ring Gasket and Special Wall and Floor Bolts, Concealed Pattern Rough Brass Flushing Valve with Stop and Rough Brass Flush Pipe, Push Button through Wall with Nickel-plated Brass Flange and China Plate marked Push.

Lavatory, Extra Heavy Vitreous Ware with Integral Back, Combination Supply and Drinking Nozzle, Soap Dish, Wall Bolts and Special Inlet and Outlet Fittings.

As prison requirements vary in almost every instance, price has been omitted, but will quote upon receipt of specifications giving detail and quantity required.

## VOGEL FROST-PROOF CLOSETS

### WASHITA



J-1554

These closets are simple, strong and durable and require no pit. Are quickly and economically installed, as the valve may be covered with earth as soon as connection with the water supply is made. Valve parts can be easily removed from above the floor. Bowls have special design one-half roll enameled rims.

### COMBINATION No. 1

Depressing the seat raises the rod, allowing the tank to fill, after which no more water enters until the closet is again used. Releasing the seat allows a strong flush direct from tank to hopper, after which the water in valve casing passes down through waste valve (below frost line) into the sewer, leaving the entire fixture empty. By means of the pressure tank an ample flush is secured without unnecessary waste of water.

Price, Enameled Inside, Tall Oval Enameled Roll Flush Rim Hopper with Reinforced Hardwood Seat, 8x24-inch Galvanized Pressure Tank, Supply and Flush Valves Assembled with 3-foot 3-inch Valve Rod and Casing.....each	31.50
If Hopper Enameled Inside and Outside, add .....	4.75
with Self-raising Seat, add.....	1.50
If with Earthenware Bowl, add.....	.....

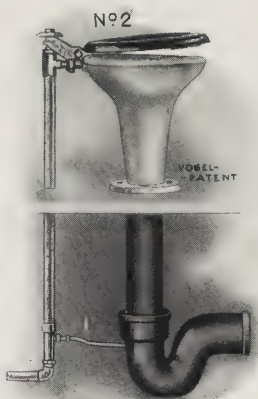
### COMBINATION No. 2

This contains but one washer and flushes while in use, after which no water remains in the fixture or casing.

Price, Enameled Inside Hopper with Brass Fan Wash, Enameled Roll Flush Rim, Hardwood Seat, Valve Assembled with 3-foot 3-inch Valve Rod and Casing .....	19.00
If Hopper Enameled Inside and Outside, add .....	4.75
" with Self-raising Seat, add.....	1.50

Combinations with hoppers having 4-inch outlets for calking into bell end of soil pipe, furnished at same price. Flanged hoppers will be furnished unless otherwise ordered.

### BOSQUE



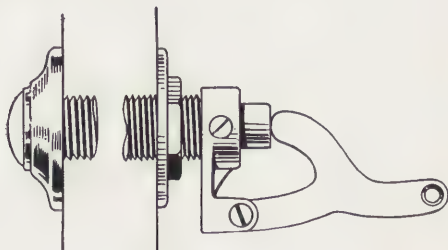
J-1556



## PUSH BUTTONS AND PULLS FOR CONCEALED TANKS

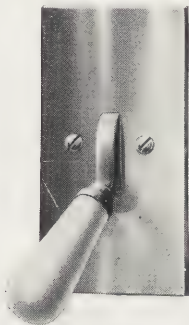


J-1558

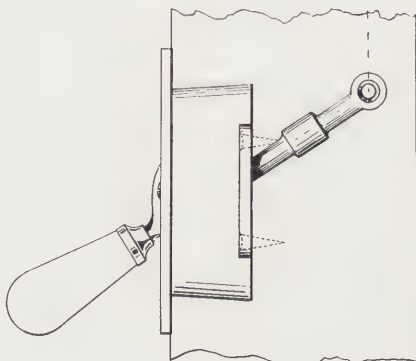


J-1560

Suitable for wall of any thickness. Give thickness when ordering.



J-1562

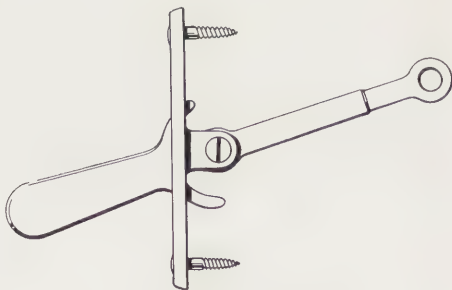


J-1564

Partition Pattern Low Down Tank China Handle Nickel-plated Brass Pull with Detachable Plate and Wall Box; used where Chain or Rod is located in Partition, giving a much longer travel than Push Button.



J-1566



J-1568

Nickel-plated Brass Pull with Detachable Plate, used where Runway and  $\frac{7}{8}$ -inch Marble Back is used.

## CLOSET SEATS WHITE PYRALIN

No. 220



J-1660

White Pyralin Plain Square Back Seat with Cover, N. P. Cast Brass Screw-in Bar Hinge and White Rubber Bumpers.

Price, with Cover..... 11.00  
" without Cover..... 10.00

No. 140



J-1664

White Pyralin Plain Square Back Seat and Cover with Concealed Bar Hinge, White Seat Posts, and White Rubber Bumpers. No exposed metal.

Price, with Cover..... 15.00  
" without Cover..... 11.00

No. 260



J-1662

White Pyralin Open Front Square Back Seat with Cover, Nickel-plated Cast Brass Screw-in Bar Hinge and White Rubber Bumpers.

Price, with Cover..... 13.50  
" without Cover..... 12.50

No. 510



J-1666

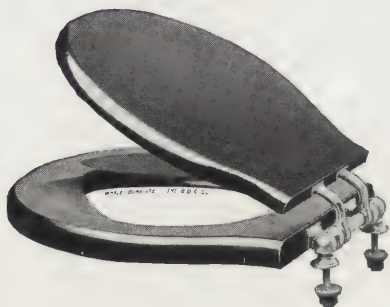
White Pyralin Open Front and Back, Full Saddle Seat without Cover, Nickel-plated Heavy Bar Hinge and White Rubber Bumpers. For regular bowl.

Price, without Cover..... 12.25  
" with Cover..... 14.50

## WHALE-BONE-ITE CLOSET SEATS

No. 16-91

No. 21-9



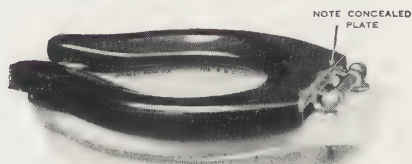
J-1676

Whale-Bone-It Saddle Seat with Cover and Nickel-plated Bar Hinge. Length,  $17\frac{3}{4}$  inches; width,  $15\frac{5}{8}$  inches; hole  $10\frac{1}{2}$  inches long, 8 inches wide.

Price, No. 16-91 Ebony with Cover..... 25.80

Price, No. 16-91 Ebony without Cover..... 14.70

FOR EXTENDED LIP BOWL



J-1680

Whale-Bone-It Open Front Seat without Cover with Nickel-plated Bar Hinges, for all Standard Type Extended Lip Bowls. Length, 19 inches; width,  $15\frac{1}{2}$  inches; hole, 8 inches wide.

Price, No. 21-9 Ebony without Cover..... 14.80

Price, No. 21-91 Ebony with Cover..... 26.00

No. 18-59



J-1678

FOR EXTENDED LIP BOWL

Whale-Bone-It Open Front and Back Seat without Cover, with Nickel-plated Hinges. Length,  $18\frac{3}{4}$  inches; width, 15 inches; front and back openings,  $3\frac{1}{4}$  inches wide.

Price, No. 18-59 Ebony without Cover..... 18.00

FOR REGULAR BOWL

Length,  $17\frac{3}{4}$  inches; width, 15 inches; front and back openings,  $3\frac{1}{4}$  inches wide.

Price, No. 18-59 Ebony without Cover..... 18.00

No. 23-9

FOR REGULAR BOWL



J-1682

Whale-Bone-It Open Front Seat without Cover with Nickel-plated Bar Hinges, for all Standard Type Bowls. Length,  $16\frac{1}{2}$  inches; width,  $15\frac{1}{2}$  inches; front opening, 4 inches.

Price, No. 23-9 Ebony without Cover..... 14.00

Price, No. 23-91 Ebony with Cover..... 25.00

Whale-Bone-It is a specially prepared composition, acid-proof, impervious and guaranteed against splitting, cracking or checking. Particularly adapted for all public buildings, schools, hospitals, comfort stations, etc.

## CLOSET SEATS

### OVAL SEATS



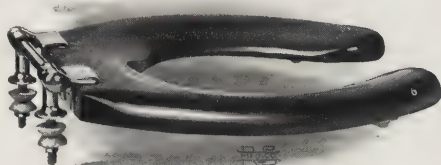
J-1684

1 1/4-inch Four Piece Bolted Oval Oak Seat with Cover, Gloss Finish and Nickel-plated Cast Brass Bar Hinges.

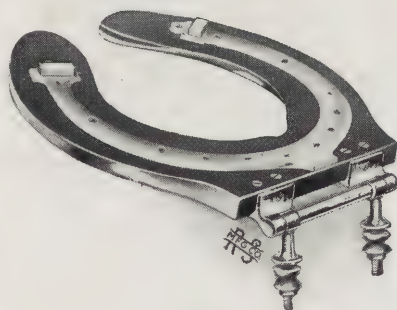
Price, with Cover ..... 6.50  
" without Cover ..... 6.00

### OPEN FRONT SEATS WITH NOTCHED BACK

Top View



Bottom View



J-1686

1 1/2-inch Oak Open Front and Notched Back Semi-saddle Seat without Cover, Nickel-plated Heavy Cast Brass Bar Hinge with Special Rubber Bumpers.

Price ..... 10.00

### CLOS-RUFF SEATS



J-1688

1 1/4-inch Oak Saddle Seat and Cover with Nickel-plated Heavy Cast Brass Hinges and Rubber Bumpers.

Price ..... 6.50

### OPEN FRONT SEATS



J-1690

1 1/4-inch Oak Open Front Semi-saddle Closet Seat without Cover, with Nickel-plated Bar Hinge and Rubber Bumpers.

Price ..... 4.50  
" with Cover ..... 5.50

### OPEN FRONT AND BACK SADDLE SEATS



J-1692

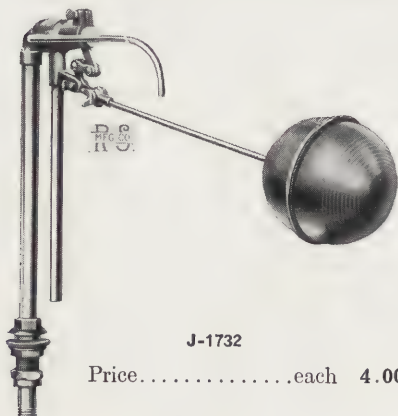
1 1/2-inch Oak Saddle Seat, Open Front and Back with Heavy Brass Nickel-plated Bar Hinge and Rubber Bumpers.

Price ..... 7.50  
" with Cover ..... 10.50



## BALL COCKS

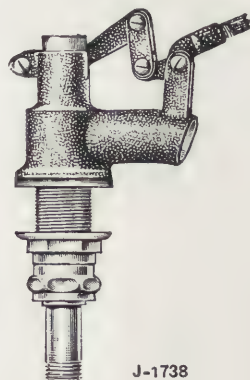
### R-S ELEVATED BALL COCKS



J-1732

Price.....each 4.00

### COMPOUND LEVER BALL COCKS BOTTOM SUPPLY



J-1738

Price, with Ball and Stem....each 3.00

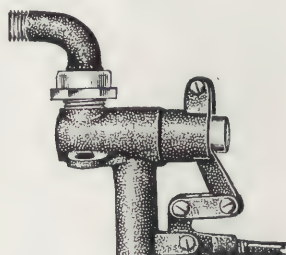
### NO. 5 NOISELESS BALL COCKS



J-1734

Price.....each 6.00

### TOP SUPPLY



J-1740

Price, with Ball and Stem....each 3.00

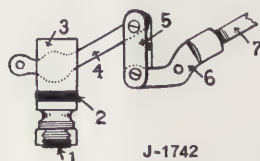
### IMPROVED BALL COCKS



J-1736

Size...inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1
Price per doz.	16.80	18.00	27.00	45.00

### REPAIRS FOR COMPOUND LEVER BALL COCKS



J-1742

1—Seat Packing  
 2—Upper Packing  
 3—Plunger

4-5-6—Levers  
 7—Stem

## FLUSH VALVES

### RUBBER BALL FLUSH VALVES

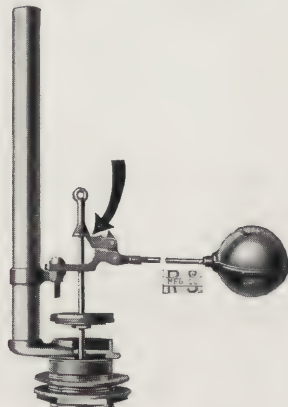


J-1744

Douglas Pattern Flush Valves for Low Tank complete with Ball and Stem.

Price.....each 3.00

### GEORGIA FLUSH VALVES



J-1750

Price, 2 -inch for Low Tank each 4.50  
 " 1½ " " High " " 4.50

### FLUSH VALVES

Itasca



J-1746

Hecla



J-1748

Price, Itasca Heavy Brass, 1½x10-inch, for High Tank.....each 3.75

Price, Hecla Light Brass, 1¼x10-inch for High Tank.....each 2.50

Price, Hecla Light Brass, 1¼x8-inch, for High Tank.....each 2.50

### GOOSENECK VALVES

Galvanized

Stationary Brass



J-1752



J-1754

### STATIONARY BRASS GOOSENECK VALVES

Price, 1½x 8-inch.....each 5.00  
 " 1½x10 " ..... " 5.25

### GALVANIZED GOOSENECK VALVES

Price, 1¼x 8-inch.....each 1.30  
 " 1¼x10 " ..... " 1.50  
 " 1½x 8 " ..... " 1.70  
 " 1½x10 " ..... " 1.80

## VITREOUS CHINA CLOSET BOWLS

### SYPHON JET



**J-1794**

Vitreous China Standard Syphon Jet Bowl for High and Low Tanks.  
 Price ..... each **22.00**

### SYPHON JET WITH RAISED REAR VENT



**J-1796**

Vitreous China Syphon Jet Bowl with Raised Rear Round Vent, for High or Low Tanks. The vent is flushed with the bowl, dislodging any filth or dirt.  
 Price ..... each **34.50**

Above bowls furnished with  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  or 2-inch spuds, bowls with integral seats and rear raised vent furnished to order. Spuds and couplings are extra.

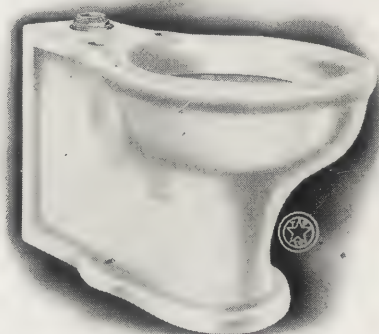
### SYPHON JET WITH EXTENDED LIP



**J-1798**

Vitreous China Syphon Jet Bowl with Extended Front Lip, for High or Low Tanks.  
 Price ..... each **24.00**

### SYPHON JET WITH ANGLE WALL FLANGE



**J-1800**

Vitreous China Syphon Jet Bowl, 14 inches high with Angle Wall Flange. Made for fireproof construction. Furnished with either back or top spud with outlet to floor or wall as desired.  
 Price ..... each **37.00**

## VITREOUS CHINA CLOSET BOWLS

### SYPHON WASH DOWN



**J-1802**

Vitreous China Syphon Action Wash Down Bowl for High or Low Tanks. Regular roughing-in, 14 to 14½ inches.

Price.....each **12.50**

### CLOSURUF SYPHON WASH DOWN



**J-1806**

Vitreous China Closruf Syphon Action Wash Down Bowl with Extended Foot. For High or Low Tanks. Roughs in as close as 10 inches.

Price.....each **16.50**

### REVERSE TRAP WASH DOWN

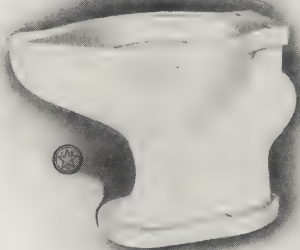


**J-1804**

Vitreous China Reverse Trap Syphon Action Wash Down Bowl for High or Low Tanks. The special sanitary rim and foot are improvements in this bowl.

Price.....each **14.25**

### REVERSE TRAP WASH DOWN WITH EXTENDED LIP



**J-1808**

Vitreous China Reverse Trap Syphon Action Wash Down Bowl with Extended Front Lip. For High or Low Tanks.

Price.....each **16.25**

Above bowls furnished with 1¼, 1½ or 2-inch spuds. Bowls with integral seats and rear raised vent furnished to order. Spuds and couplings are extra.



## CLOSET STALL PARTITIONS



J-1810

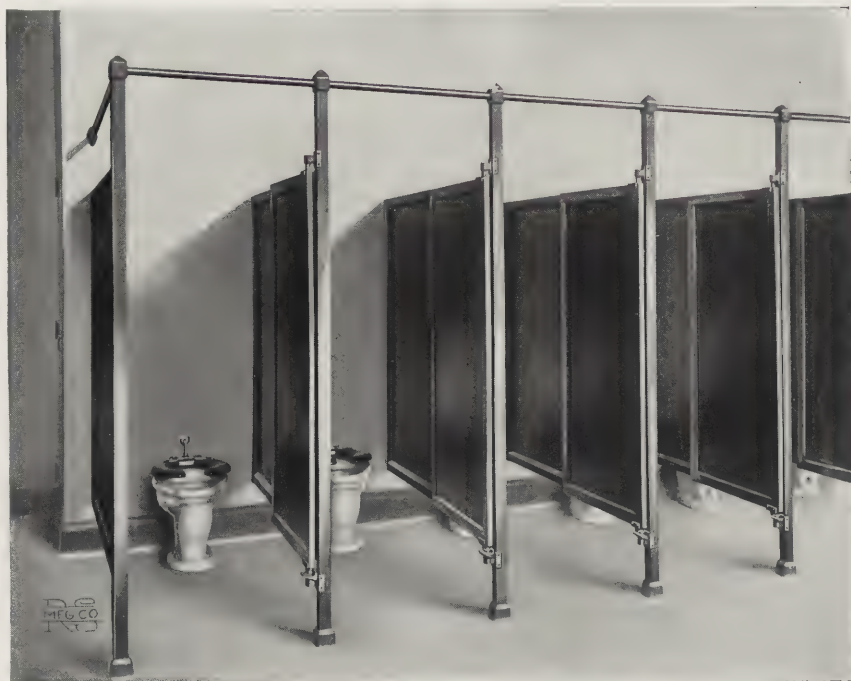
Partitions are made of  $\frac{1}{8}$ -inch thick smooth steel painted one coat, reinforced top and bottom, bolted to wall with angle iron, 1-inch black or galvanized steel pipe standards extending from floor to one foot above top of partition and securely bolted to partitions. Black or galvanized steel pipe railing extends across front of stalls and back to wall.

Partitions can be made in any size but are usually furnished 4 feet 6 inches high, set one foot above floor. Depth 30 to 60 inches.

Above can be furnished with wood or steel doors where partition depth is 48 inches or more.

Prices upon application.

## CLOSET STALL PARTITIONS



J-1812

Partitions, hollow posts and doors, are made of special smooth furniture steel finished with one coat primer and two coats of olive green enamel, baked on. Doors stand open when stall is unoccupied. They are furnished with gravity roller bearing springless hinges, bolts, latches and rubber bumpers. Corners of doors are mitered and welded. Hollow metal posts extend 12 inches above top of partitions. Partitions set 12 inches above floor and are usually 4 feet 6 inches high and 4 feet deep with 30-inch wide door.  $1\frac{1}{4}$ -inch drawn steel tubing for head rail across top of stalls and to wall.

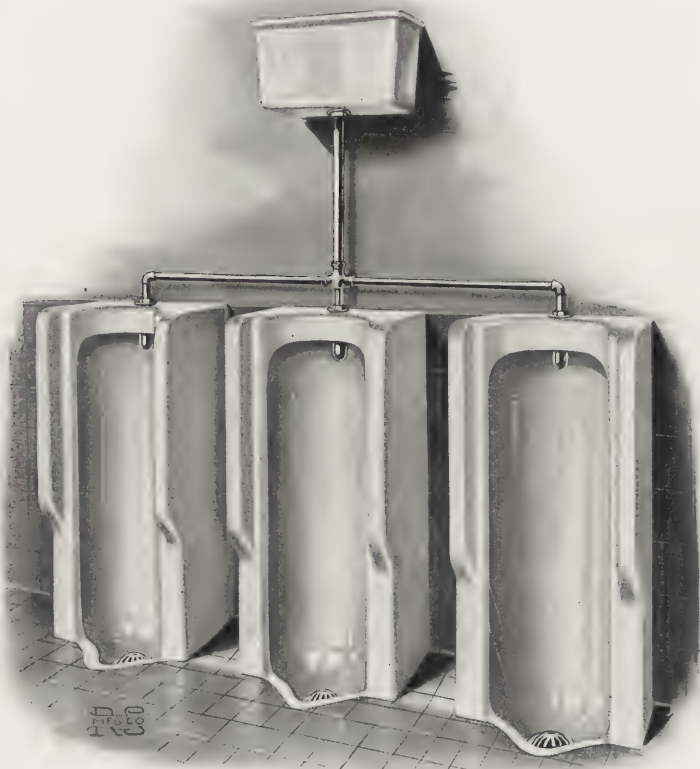
Doors can be furnished 26, 28, 30, 31 and 34 inches wide.

Partitions can be furnished 60 inches high and in depth from 30 to 60 inches in multiples of six, but partitions of lesser depth than 48 inches are not usually furnished with doors.

Colors other than olive green can be furnished to order.

Price upon application.

## PORCELAIN URINAL STALLS



J-1872

Porcelain Urinal Stalls with Integral Shields, Nickel-plated Brass Beehive Strainers Nickel-plated Spreaders, Nickel-plated Flush Pipe, Cast Iron Enameled Inside and Outside Automatic Tank with Nickel-plated Brass Compression Stuffing Box Stop.

Width 18 Inches	Total Height 41 $\frac{3}{4}$ Inches
To Set in Floor 3 $\frac{3}{4}$ Inches	Height from Floor Line 38 Inches
	Wall to Front of Lip 15 Inches

Price, as described, Three-stall. ....  
 " for each Additional Stall. ....

All exposed surfaces of these urinals are glazed, and as they are made with integral shields, partitions are unnecessary. They should be set at least 6 inches apart, as shown.

Can be furnished without integral shields for use with slate or marble partitions, when so ordered. If furnished without Integral Shields, deduct per stall. ....

Can furnish Nickel-plated Flat Strainer or with Vitreous China Strainer when so ordered.

Prices quoted on porcelain urinals are for kiln-run ware. Extra charge is made for special selection.

## PORCELAIN URINAL STALLS



J-1874

Porcelain Urinal Stalls with Integral Shields, Nickel-plated Brass Beehive Strainers, Nickel-plated Spreaders, Concealed Brass Flush Pipe, Concealed Cast Iron Enameled Inside Automatic Tank, with Nickel-plated Brass Compression Stuffing Box Stop.

Width 18 Inches	Total Height 41 $\frac{3}{4}$ Inches
To Set in Floor 3 $\frac{3}{4}$ Inches	Height from Floor Line 38 Inches
Wall to Front of Lip 15 Inches	

Price, as described. Three-stall. ....  
 " for each Additional Stall. ....

All exposed surfaces of these urinals are glazed, and as they are made with integral shields, partitions are unnecessary. They should be set at least 6 inches apart, as shown.

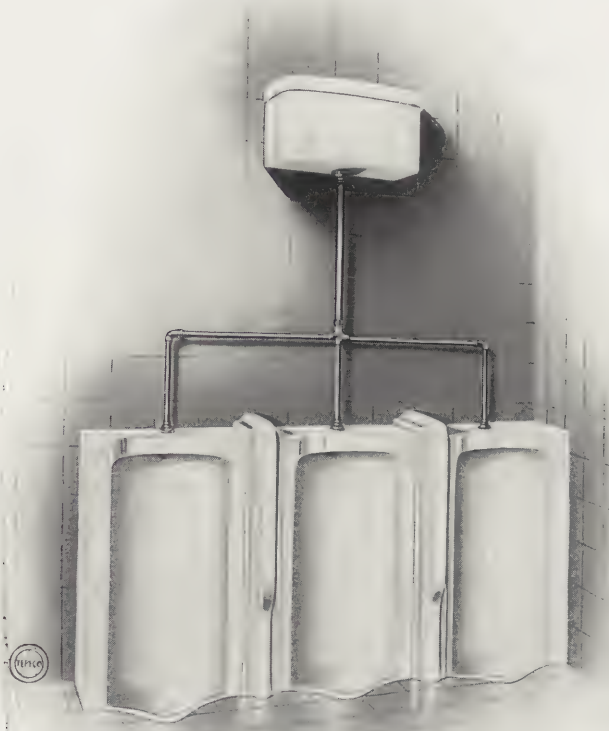
Can be furnished without integral shields for use with slate or marble partitions, when so ordered. If furnished without integral shields, deduct per stall ....

Can furnish Nickel-plated Flat Strainer or with Vitreous China Strainer when so ordered.

Prices quoted on porcelain urinal stalls are for kiln-run ware. Extra charge is made for special selection.



## PORCELAIN URINAL STALLS



J-1876

Battery of Three Porcelain Urinal Stalls with Porcelain Overlap Partition Shields, Six-gallon Vitreous China Tank on Concealed Bar Hanger, Operated by Periodic Discharge Fittings with Top Supply and Stop, N. P. Three-part Flush Connection, Nickel-plated Fan Spreaders with Slip Nuts, Nickel-plated Outlet Strainers and Connection for either Lead or Wrought Iron Pipe and Vitreous China Strainers.

Height Over All  $41\frac{3}{4}$  inches      Height from Floor Line, 38 inches

Width .....	inches	18	24
Length Over All .....	"	60	78
Price, as described .....			

Prices on Urinal Stalls are based on kiln run ware, with extra charge for special selection.

PORCELAIN URINAL STALLS

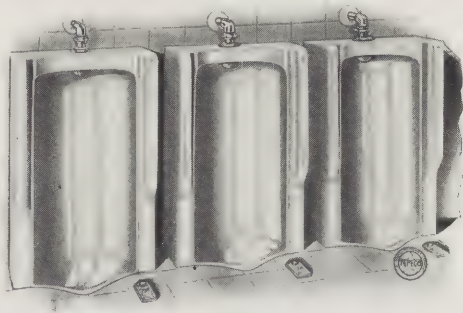


J-1878

Battery of Three Straight Front Solid Porcelain Urinal Stalls operated by Nickel-plated Brass Self-closing Pedal Valves with Removable Floor Plates and Shut-off Valves for 1/2-inch Iron Pipe, Nickel-plated Brass Flush Connections, Nickel-plated Brass Fan Spreaders, Nickel-plated Brass Outlet Connections for Lead or Iron Pipe.

Height Over All 41 1/4 Inches      Height from Floor Line 38 Inches  
Wall to Front of Lip 15 Inches

Width of Stalls.....	inches	18
Price, as described.....		.....



J-1880

Battery of Three Extended Shield Solid Porcelain Urinal Stalls operated by Nickel-plated Brass Self-closing Pedal Valves with Removable Floor Plates and Shut-off Valves for 1/2-inch Iron Pipe, Nickel-plated Brass Flush Connections, Nickel-plated Brass Fan Spreaders, Nickel-plated Brass Outlet Connections for Lead or Iron Pipe.

Height Over All 41 1/4 Inches      Height from Floor Line, 38 Inches  
Wall to Front of Lip 15 Inches

Width of Stalls.....	inches	18
Price, as described.....		.....

Prices for Porcelain Urinals are based on kiln-run ware. Extra charge is made for special selection.

## PORCELAIN URINAL STALLS

PATENTED



J-1882

Porcelain Duplex Urinal Stall with Integral Shield and Integral Flushing Rim, Nickel-plated Brass Beehive Strainer, Nickel-plated Flush Pipe, Cast Iron Enameled Inside and Outside Automatic Tank with Nickel-plated Brass Compression Stuffing Box Stop.

Total Height, 44 inches  
Total Width, 24 inches

Height from Floor Line, 39½ inches  
Wall to Front of Lip, 10 inches

Price, as described . . . . .

All exposed surfaces of these urinals are glazed.

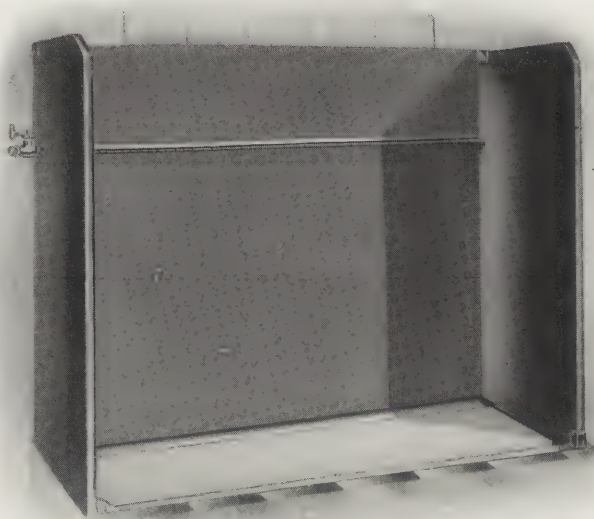
Urinal also made with vent through back, 4½ inches diameter, 10½ inches center to bottom of stall.

Can furnish nickel-plated flat strainer or vitreous china strainer when so ordered.

This two stall urinal requires but one flush and one waste outlet connection.

Prices quoted on porcelain urinals are for kiln run ware. Extra charge is made for special selection.

## URINAL STALLS



J-1884

Single Slate or Marble Urinal Stall with Back and Two Ends, without Center Partitions, 1½-inch Countersunk Base, Galvanized Cast Iron Gutter with Outlet Connection, Perforated Wash Down Pipe and Loose Key Stop, and Brass Clamps and Bolts.

Height Feet	Length Feet	PRICE, EACH		
		Slate	Tennessee Marble	Italian Marble
5	2	.....	.....	.....
5	4	.....	.....	.....
5	6	.....	.....	.....
5	8	.....	.....	.....
5	10	.....	.....	.....
5	12	.....	.....	.....
5½	2	.....	.....	.....
5½	4	.....	.....	.....
5½	6	.....	.....	.....
5½	8	.....	.....	.....
5½	10	.....	.....	.....
5½	12	.....	.....	.....

Can be made of any length, height and depth to suit requirements.

Can also be furnished with automatic flushing tank, prices varying according to capacity of tank required for the different lengths of the stalls.



RS  
 RS

## ENAMELED IRON URINALS

### AUTOMATIC SYPHON EDUCATION



J-1886

Automatic Syphon Education Urinal with Cast Iron Tank and Galvanized Iron Flush and Air Pipes, Perforated Wash Down Pipe fitted along Back (Brass on Enameled, and Galvanized Iron on Painted Urinals).

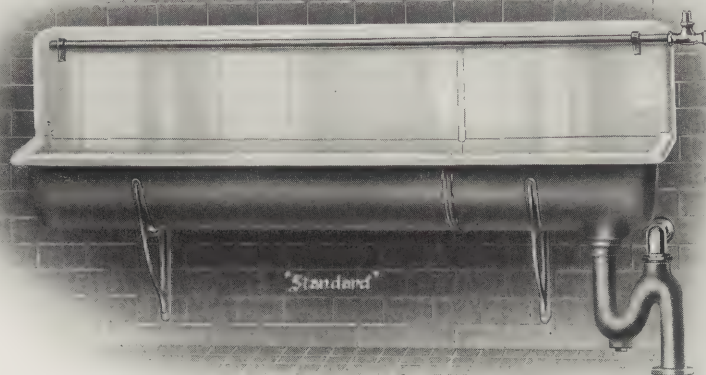
Length Feet	PRICE, PAINTED		PRICE, ENAMELED	
	Without Partitions	With Partitions	Without Partitions	With Partitions
4	.....	.....	.....	.....
5	.....	.....	.....	.....
6	.....	.....	.....	.....
7	.....	.....	.....	.....
8	.....	.....	.....	.....
9	.....	.....	.....	.....
10	.....	.....	.....	.....
11	.....	.....	.....	.....
12	.....	.....	.....	.....
14	.....	.....	.....	.....
15	.....	.....	.....	.....
16	.....	.....	.....	.....

Longer urinals can be furnished if desired. Prices upon application.

If with floor brackets instead of wall brackets, add, each 2.00.

Unless otherwise ordered, urinal with enameled interior and with outlet on right end will be sent.

## ENAMELED IRON URINALS



J-1888

Enameled Iron Roll Rim Urinal with Separate Back, Painted Brackets, Bee Hive Strainer, Perforated Wash Down Pipe (Brass on Enameled and Galvanized Iron on Painted Urinals), and Loose Key Stop. Trap extra.

Length Feet	PRICE, AS DESCRIBED		PRICE, LESS WASH DOWN PIPE, STOP AND TRAP	
	Enameled	Painted	Enameled	Painted
7	.....	.....	.....	.....
8	.....	.....	.....	.....
9	.....	.....	.....	.....
10	.....	.....	.....	.....
12	.....	.....	.....	.....
14	.....	.....	.....	.....
15	.....	.....	.....	.....

Longer urinals can be furnished.

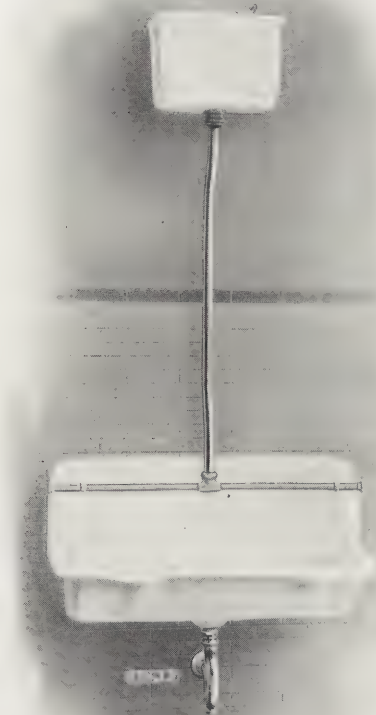
Right or left end outlet can be furnished.

Unless otherwise ordered, urinals having right end outlet will be furnished.

Waste coupling for lead pipe is furnished on urinals ordered without trap.

Can be furnished with brass tee in center of wash down pipe for connecting with flush pipe, instead of loose key stop, at same price.

## ENAMELED IRON URINALS

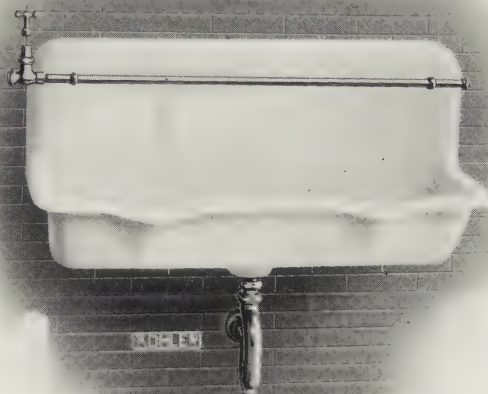


J-1890

Enameled Iron Roll Rim Lipped Urinal with Integral Back, Concealed Wall Hangers, Enameled Iron Tank with Automatic Flushing Device and Top Supply, with Stop, Nickel-plated Brass Flush and Perforated Brass Wash Down Pipe, Finished Brass Beehive Strainer and 1½-inch Nickel-plated Bag Trap.

Size.....inches	24	30	36	42	48	60
Number of Lips.....	1	1	2	2	2	3
Price, as described.....	.....	.....	.....	.....	.....	...

## ENAMELED IRON URINALS



J-1892

Enameled Iron Roll Rim Lipped Urinal with Integral Back, Concealed Hangers, Brass Bee-hive Strainer, Finished Brass Perforated Flush Pipe with Loose Key Stop and 1½-inch Nickel-plated Offset P Trap.

Size .....	2	2½	3	3½	4	5
Number of Lips .....	1	1	2	2	2	3
Price, as described, Enameled Inside .....	.....	.....	.....	.....	.....	.....
“ without Flush Pipe, Stop and Trap, Enameled Inside. ....	.....	.....	.....	.....	.....	.....



## URINALS AND TANKS

### VITREOUS CHINA BEDFORDSHIRE URINALS FLAT BACK, LIPPED

**J-1894**

Vitreous China Flat Back Urinal  
with Extended Lip,  $\frac{3}{4}$ -inch Supply Spud  
and  $1\frac{1}{2}$ -inch Outlet Spud.

Wall to Front of Lip,  $12\frac{3}{4}$  inches

Width of Bowl 14 inches

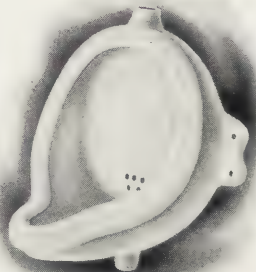
Price, as described.....

#### CORNER URINALS, LIPPED

Size.....inches 11x11

Price, as described.....

### VITREOUS CHINA BEDFORDSHIRE URINALS FLAT BACK, LIPPED

**J-1896**

Vitreous China Flat Back Urinal with  
Extended Lip and Horn Inlet and Outlet  
Connections.

Wall to Front of Lip,  $12\frac{3}{4}$  inches

Width of Bowl, 14 inches

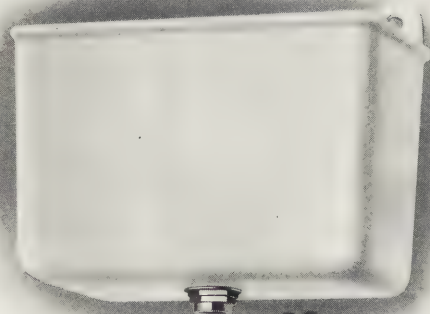
Price, as described.....

#### CORNER URINALS, LIPPED

Size.....inches 11x11

Price, as described.....

### AUTOMATIC URINAL TANKS

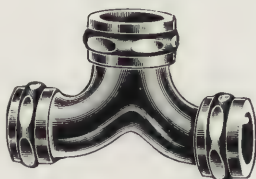
**J-1898**

Capacity Gallons	PRICE EACH, COMPLETE		Capacity Gallons	PRICE EACH, COMPLETE	
	Vitreous China	Cast Iron Enameled In and Out		Vitreous China	Cast Iron Enam. In and Out
2	.....	.....	5	.....	.....
3	.....	.....	6	.....	.....
4	.....	.....	8	.....	.....

## URINAL FITTINGS

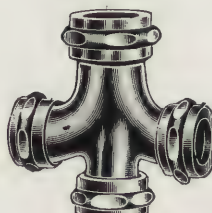
### FLUSH PIPE FITTINGS

**TWO-WAY**



**J-1990**

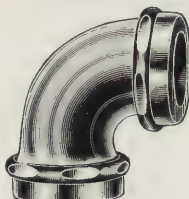
**THREE-WAY**



**J-1992**

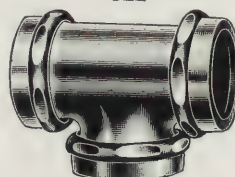
Price, Two-way, N. P., $\frac{3}{4}$ or $\frac{1}{2}$ in. O. D., all around.....	each	1.50
“ “ “ “ 1-in. O. D., all around.....	“	1.80
“ “ “ “ $\frac{3}{4}$ or $\frac{1}{2}$ in. O. D., $1\frac{1}{4}$ -in. O. D. Inlet.....	“	1.80
“ “ “ “ 1-in. or $1\frac{1}{4}$ -in. O. D. Inlet.....	“	2.20
“ Three-way, “ $\frac{3}{4}$ or $\frac{1}{2}$ in. O. D., $1\frac{1}{4}$ -in. O. D. Inlet.....	“	2.50
“ “ “ “ 1-in. O. D., $1\frac{1}{4}$ -in. O. D. Inlet.....	“	2.90

**ELBOW**



**J-1994**

**TEE**



**J-1996**

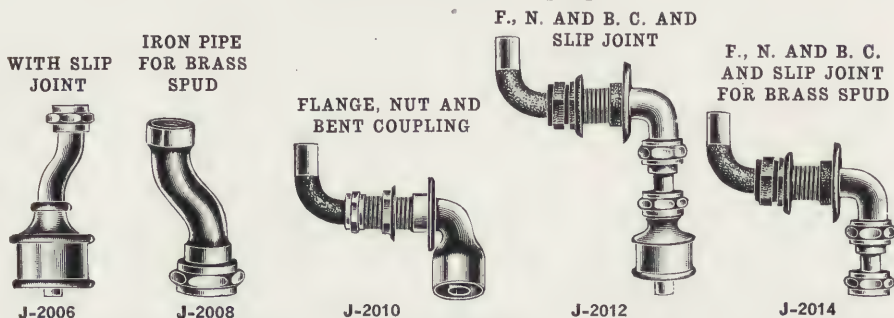
Price, Elbows, Nickel-plated, $\frac{3}{4}$ -in. O. D.....	each	.65
“ “ “ “ $\frac{1}{2}$ “ “ .....	“	.80
“ “ “ “ 1 “ “ .....	“	.95
“ Tees, Nickel-plated, $\frac{3}{4}$ -in. O. D. all around.....	“	1.35
“ “ “ “ 1 x $\frac{3}{4}$ -in. O. D., all around.....	“	1.50
“ “ “ “ $1\frac{1}{4}$ x $\frac{3}{4}$ “ “ “ .....	“	2.25

### URINAL FLUSH PIPES (NOT ILLUSTRATED)

Price Single, with One Inlet Connection, Nickel-plated.....	each	3.00
“ Double “ Two “ Connections, “ “ .....	“	9.00
“ Triple “ Three “ “ “ .....	“	14.00
“ Quadruple, with Four Inlet Connections, Nickel-plated.....	“	23.50

## URINAL FITTINGS

### INLET CONNECTIONS



Price, Inlet,	with Slip Joint, Nickel-plated	.....each	.90
" "	for Iron Pipe, for Brass Spud Urinal, Nickel-plated	"	1.10
" "	with Slip Joint, " " " " " "	"	1.20
" "	Adj. Flange, Nut and Bent Coupling " " " "	"	1.80
" "	" " " " and Slip Joint, N. P. " "	"	3.00
" "	Bent Coupling and Slip Joint, for Brass Spud, N. P. " "	"	3.00

### OUTLET CONNECTIONS



Price, Outlet, Nickel-plated, with Adj. Flange and Bent Coupling	.....each	2.50
" " " " Ground Joint Sanitary Tee	"	4.75
If with Sanitary Tee without Ground Joint or for Iron Pipe Both Ends deduct	"	.40

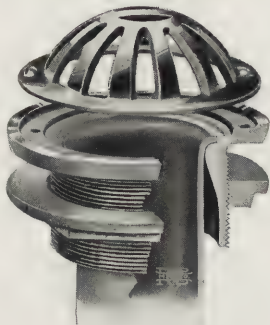
### URINAL TRAPS



Price, Trap, with Slip Joint Inlet, 1½-inch I. P. Outlet, Nickel-plated	.....each	4.00
" " " Ground Joint Sanitary Tee Nickel-plated	"	6.50

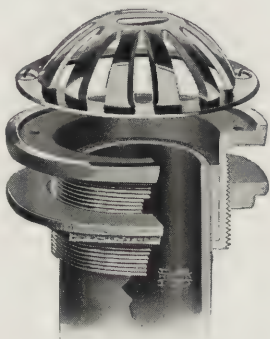
## URINAL STRAINERS

### BEEHIVE STRAINERS FOR LEAD PIPE



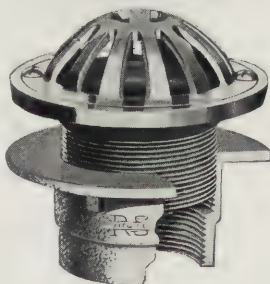
J-2024

Price, N. P. Beehive Strainer for 2-in. Lead Pipe Connection.....each  
**FOR IRON PIPE**



J-2026

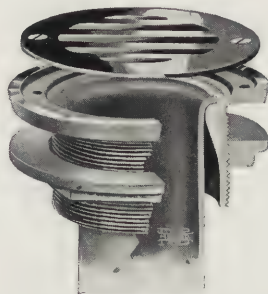
Price, N. P. Beehive Strainer for 2-in. I. P. Caulking Connection.....each  
**FOR IRON PIPE**



J-2028

Price, N. P. Beehive Strainer for 2 or 3-in. Threaded I. P. Con. each .....

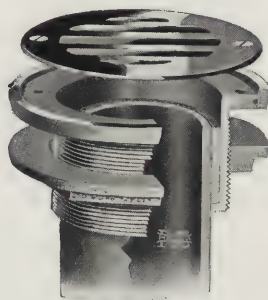
### FLAT STRAINERS FOR LEAD PIPE



J-2030

Price, N. P. Flat Strainer for 2-in. Lead Pipe Connection.....each .....

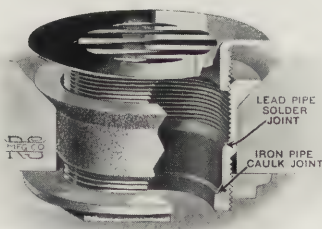
### FOR IRON PIPE



J-2032

Price, N. P. Flat Strainer for 2-in. I. P. Caulking Con.....each .....

### FOR LEAD OR IRON PIPE



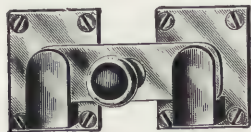
J-2034

Price, N. P. Flat Strainer for 2-in. Lead Pipe and 2-in. I. P. Caulking Connection.....each .....



## LAVATORY DOOR LATCHES, BOLTS, ETC.

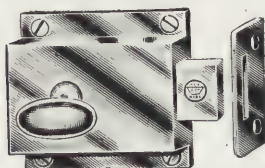
### No. 1242 SWING LATCHES



J-2036

Price, includes Keeper.....each **3.70**

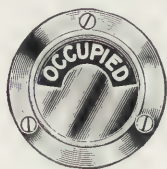
### No. 1250 RIM BOLTS



J-2038

Price, includes Keeper.....each **3.00**

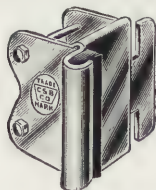
### No. 1258 INDICATORS



J-2040

Price, No. 1250-1258m with Indicator.....each **4.50**

### No. 1247C DOOR STOPS



J-2042

For doors opening out, with keeper for No. 1242 swing latch.

Price.....each **2.90**

Always specify thickness of both marble and door and state whether they swing in or out.

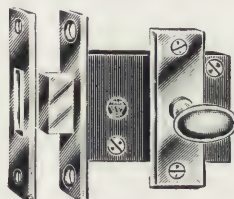
### No. 1244 SLIDE BOLTS



J-2044

Price, includes Keeper.....each **3.80**

### No. 1254 MORTISE BOLTS



J-2046

Price, includes Keeper.....each **3.00**

### No. 1247D DOOR STOPS

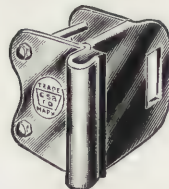


J-2048

For doors opening in or out, with keeper for No. 1254 mortise bolt.

Price.....each **2.80**

### No. 1247F DOOR STOPS



J-2050

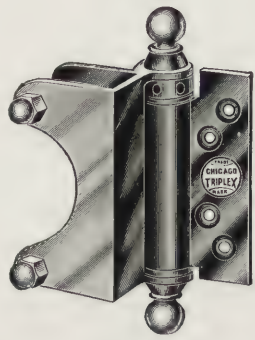
For doors opening in, with keeper for Nos. 1244 or 1250 rim bolt.

Price.....each **2.90**

## LAVATORY SPRING HINGES

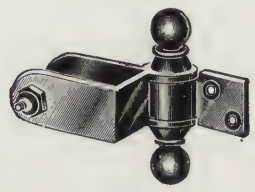
### SINGLE ACTING

No. 2242



J-2052

No. 2244



J-2054

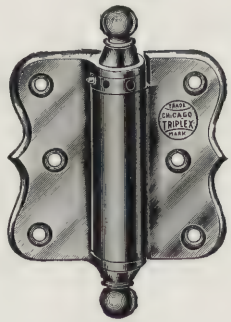
Polished brass metal, nickel plated. Adjustable box flange.

Price, No. 2242, 4-inch Flange.....	per pair	12.70
“ “ 2242-2244, with Springless Hinge .....	“ set	10.60

For 1, 1¼, 1½, 1¾ or 2-inch marble. Boxes are adjustable ⅛ inch over and under above sizes to allow for variation in marble thickness.

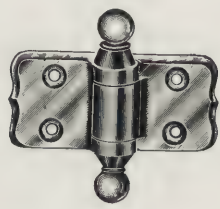
For single acting lavatory doors narrow or of medium weight, a spring and springless hinge are sufficient.

No. 2442



J-2056

No. 2444



J-2058

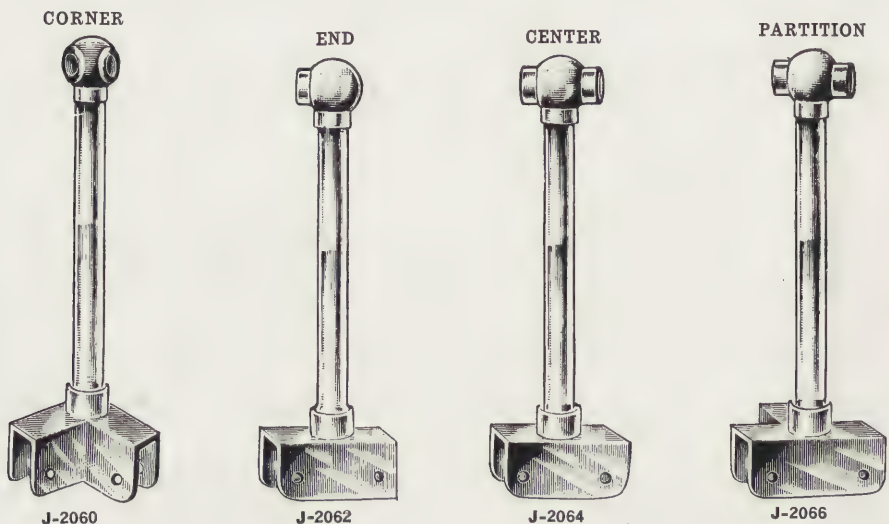
Polished brass metal, nickel plated.

Price, No. 2442, 4-inch Flange.....	per pair	12.40
“ “ 2442-2444, With springless Hinge .....	“ set	10.30

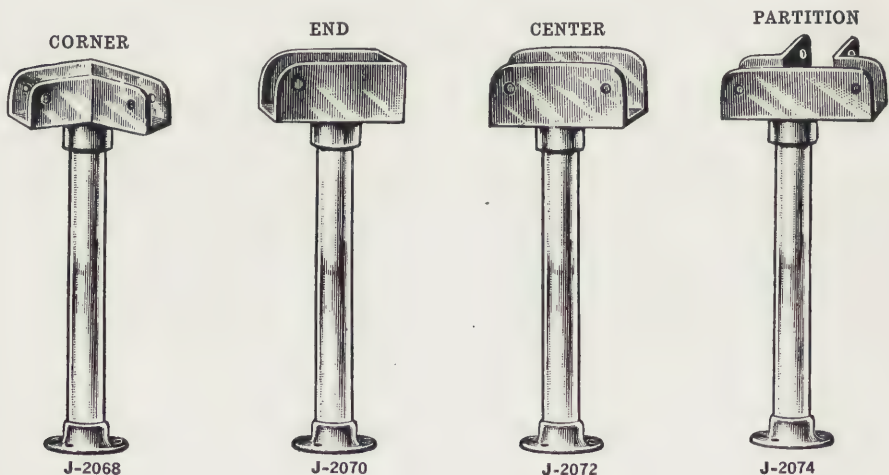
NOTE.— Always state if for wood or marble partitions, giving thickness of both doors and partitions. Single acting hinges may be furnished with reverse springs to throw the door open when released, but will be furnished so only when specified.

Price for other finishes on request.

## STANDARDS FOR CLOSET AND URINAL STALLS

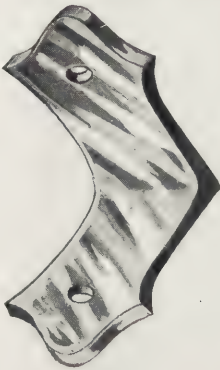


	Corner	End	Center	Partition
Price, Polished Brass.....each	3.00	3.00	3.00	3.50
“ Nickel-plated Brass.....“	3.50	3.50	3.50	4.00

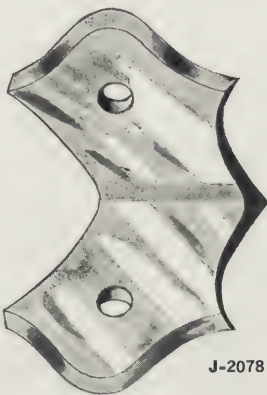


	Corner	End	Center	Partition
Price, Polished Brass.....each	3.00	3.00	3.00	3.50
“ Nickel-plated Brass.....“	3.50	3.50	3.50	4.00

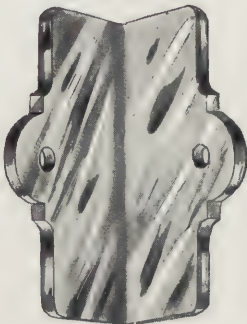
CLOSET AND URINAL STALL TRIMMINGS



J-2076

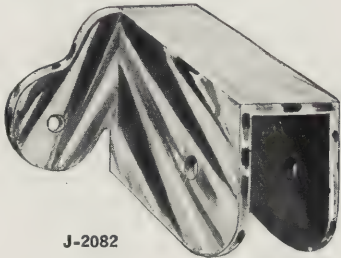


J-2078

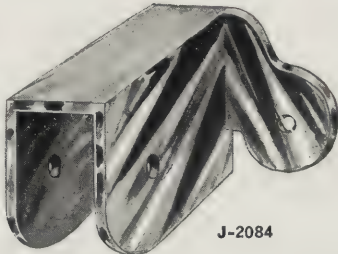


J-2080

Figure .....	H-1652	H-1654	H-1656
Price, Polished Brass .....	.25	.35	.45
“ Nickel-plated Brass .....	.30	.40	.50

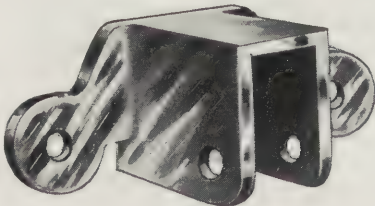


J-2082

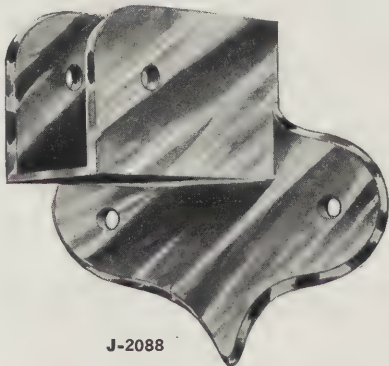


J-2084

Figure .....	H-1658	H-1660
Price, Polished Brass .....	Top Left Stirrup 1.15	Top Right Stirrup 1.15
“ Nickel-plated Brass .....	1.25	1.25



J-2086



J-2088

Figure .....	H-1662	H-1664
Price, Polished Brass .....	Top Center Stirrup 1.40	Bottom Stirrup 1.40
“ Nickel-plated Brass .....	1.50	1.50



## CLOSET AND URINAL STALL TRIMMINGS

### BOLTS FOR MARBLE OR SLATE

No. 1

No. 3



J-2090

J-2092

Number	1	3
Price, Fin. or N. P. per dozen	.90	1.00

### BRASS RODS Continuous Thread



J-2094

Price	per foot	.18
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Hexagon  
Cap

J-2096

Octagon  
Cap

J-2098

Price, Hexagon Caps, Finished or Nickel-plated	per dozen	.40
Price, Octagon Caps, Finished or Nickel-plated	per dozen	1.50

Hexagon  
Nut

J-2100

Washer



J-2102

Price, Hexagon Nuts, Finished or Nickel-plated	per dozen	.20
Price, Washers, Finished or Nickel-plated	per dozen	.25

Wall Flange



J-2104

Cap



J-2106

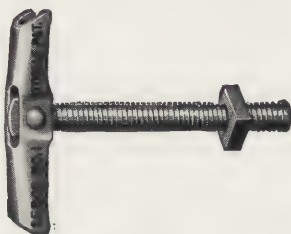
### WALL FLANGES

Price, for 1 1/8 in. O.D. Rail	each	.50
" " 1 1/4 " " " "	"	.50
" " 1 1/2 " " " "	"	.60

### CAPS

Price, for 1 1/8 in. O.D. Rail	each	.40
" " 1 1/4 " " " "	"	.40
" " 1 1/2 " " " "	"	.60

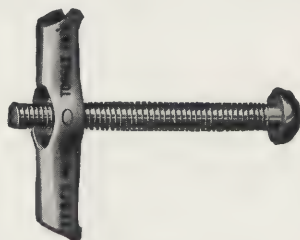
### No. 1 TOGGLE BOLTS



J-2108

Diam. and Length of Screw Inches	Size of Drill Required In.	Price per 100	Diam. and Length of Screw Inches	Size of Drill Required In.	Price per 100
5/8 x 3	1/2	7.70	1/4 x 5	5/8	14.30
3/2 x 4	1/2	8.00	1/4 x 6	5/8	15.00
3/16 x 3	1/2	8.00	5/16 x 3	5/8	17.50
3/16 x 4	1/2	8.50	5/16 x 4	5/8	18.00
3/16 x 5	1/2	9.20	5/16 x 6	5/8	20.00
3/16 x 6	1/2	9.60	3/8 x 3	7/8	20.00
1/4 x 3	5/8	12.50	3/8 x 4	7/8	24.00
1/4 x 4	5/8	13.80	3/8 x 6	7/8	31.00

### No. 5 TOGGLE BOLTS



J-2110

With round or flat head iron machine screws.

Diam. and Length of Screw Inches	Size of Drill Required In.	Price per 100	Diam. and Length of Screw Inches	Size of Drill Required In.	Price per 100
5/8 x 3	9/16	9.00	3/16 x 6	9/16	12.50
3/2 x 4	9/16	9.80	1/4 x 3	3/4	14.00
3/16 x 3	9/16	10.00	1/4 x 4	3/4	15.00
3/16 x 4	9/16	11.00	1/4 x 5	3/4	15.50
3/16 x 5	9/16	12.00	1/4 x 6	3/4	16.00

## SURGEONS' ENAMELED IRON SINKS

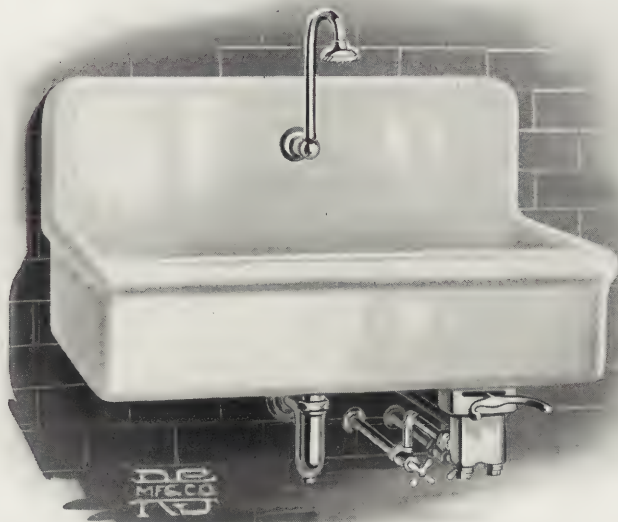


J-2198

Enameled Iron Roll Rim Surgeon's Sink, Painted White Outside with Painted Iron Legs, Pedal-action Hot and Cold Water Valves for Each Basin, with Special Supply Pipes and Spouts, Nickel-plated Removable Tilting Basins and Nickel-plated Trap.

Sizes.....inches	20x36	20x40	22x42
Price, as described.....	.....	.....	.....

## SURGEONS' PORCELAIN SINKS



J-2200

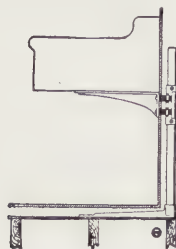
Porcelain Roll Rim Sink Supported on Carrier Concealed in Wall and Floor, Knee Action Hot and Cold Valves, Nickel-plated Supply Pipes to Wall with Stops, Goose Neck with Removable Spray and Nickel-plated P Trap.

Length, 30 inches    Width, 22 inches    Depth, 7 inches    Back, 9 inches

Price, as described.....

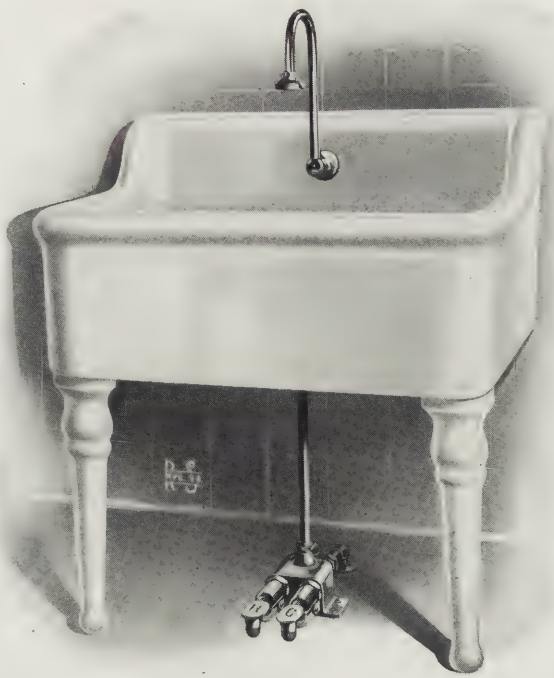
Can furnish above sink in sizes 24x36 and 24x42 inches.

Prices on porcelain sinks are quoted on kiln-run ware. An extra charge will be made for special selection.



The carrier built into the floor and wall completely covered by floor and wall finish carries the sink without placing any part of the weight of the sink on the wall structure and provides the most sanitary means of supporting the sink when an unobstructed space under the sink is desired. The carrier may be installed so as to set the sink any desired height from the floor. Ample adjustment is assured by the threaded base bolts to which the brackets are bolted to provide for any variation in thickness of wall finish after the carrier has been built in.

SURGEONS' PORCELAIN SINKS



J-2202

Porcelain Roll Rim Sink, Porcelain Legs and Wall Supports, Pedal-action Hot and Cold Water Valves, Nickel-plated Gooseneck Spout with Removable Spray, Nickel-plated Supply Pipe with Loose Key Stops and Trap.

Length 36 inches	Width 23 inches	Depth Outside 12 inches
	Back 6 inches	

Price, as described.....

Can be furnished with Knee Action Valves when desired.

Prices on Porcelain Sinks are for kiln-run ware. An extra charge will be made for special selection.



## SURGEONS' PORCELAIN SINKS



J-2204

Porcelain Roll Rim Sink with Porcelain Legs and Wall Supports, Two Sets of Knee Action Hot and Cold Water Supply Valves, Two Nickel-plated Goose Neck Spouts, One with Removable Spray, Nickel-plated Supply Pipes to Wall with Loose Key Stops and 2-inch Nickel-plated P Trap.

Length Over All, 54 inches    Width Over All, 27 inches    Depth Inside, 12 inches  
 Distance from Floor to Top of Rim, 35 inches

Price, as described.....

Can be furnished with swinging spouts if desired, also with pedal valves instead of knee action ones shown.

Prices on porcelain sinks are for kiln-run ware. An extra charge will be made for special selection.

## PORCELAIN SINKS



**J-2206**

Porcelain Combination Washing and Rinsing Sink with Integral Back and Partition, Porcelain Legs with Iron Straps to Wall, Two Pair Nickel-plated Compression Bibbs with China Index Handles, Nickel-plated Brass Two-part Waste Fitting, with Nickel-plated Open Strainer for Washing Compartment and Nickel-plated Plug Waste for Rinsing Compartment, 1½-inch Nickel-plated P Trap with N. P. Wall Escutcheon, Ash Drain Board 24 inches long for Left Hand End, Hinged to White Painted Wall Brackets.

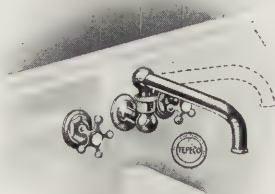
Size Over All.....	inches	24x36	24x48	26x61
" Each Sink.....	"	14x18	18x20	20x27
Depth Inside.....	"	7½	7½	7½
Height of Back.....	"	9	9	9
" from Floor to Rim.....	"	36	36	36
Price, as described.....		.....	.....	.....

Can also be furnished with Concealed Combination Supply Fitting with ½-inch Compression Valves, China Indexed Nickel-plated Brass Handles, Escutcheons and Short Nozzle, or with Combination Supply Fitting with Swinging Nozzle.  
Price, as described.....



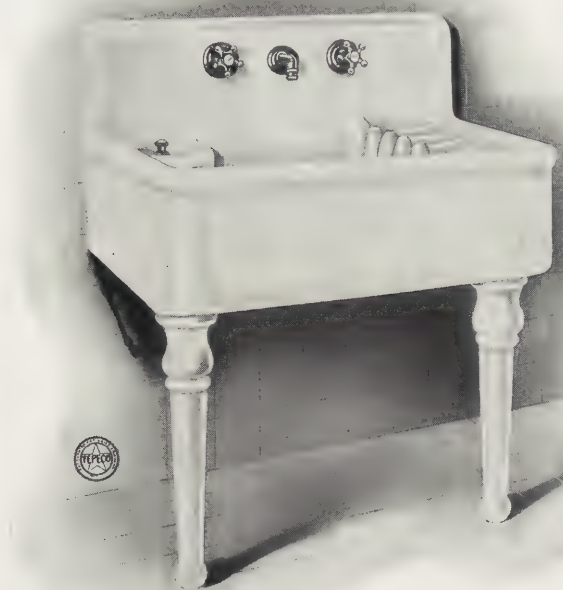
**J-2208**

Prices on porcelain sinks are quoted for kiln-run ware. An extra charge will be made for special selection.



**J-2210**

## PORCELAIN SINKS



J-2212

Porcelain Roll Rim Vegetable Sink with Integral Back, Integral Drain Shelf and Overflow Pocket, Porcelain Legs with Iron Straps to Wall, fitted with Nickel-plated Combination Hot and Cold Water Supply Fitting with Concealed Compression Valves with China Indexed Handles, Escutcheons and Short Nozzle, Nickel-plated Brass Standing Overflow and Lift Waste and Nickel-plated P Trap with N. P. Escutcheon.

Sink 22x30 inches	Depth Inside 9 inches	Back 9 inches
Sink 24x36 inches	Depth Inside 9 inches	Back 9 inches

Size.....	.....inches	22x30	24x36
Price, as described.....	.....	.....	.....
"    without Fittings.....	.....	.....	.....

Prices on porcelain sinks are for kiln-run ware. An extra charge is made for special selection.

The above sink being specially designed for the purpose of cleaning vegetables is a very useful and convenient fixture for the modern kitchen. It is fitted with a standing waste which permits the washing compartment to be filled with water to any desired height. The sink being drained through a passage in the bottom of the overflow pocket permits its being filled to its capacity with vegetables without clogging or interfering with the operation of the waste.

## PORCELAIN SINKS



J- 2214

Porcelain Roll Rim Sink with Integral Back and Drain Shelf, Porcelain Legs with Iron Straps to Wall, Nickel-plated Compression Bibbs with China Indexed Handles, Nickel-plated Open Strainer and Coupling, 1½-inch Nickel-plated P Trap, N. P. Wall Escutcheon and Rubber Drain Mat.

Size Over All.....	inches	62x26	52x26
" Inside.....	"	32x19	27x19
Depth Inside.....	"	7½	7½
Height of Back.....	"	9	9
" " Rim to Floor.....	"	36	36
Price, as described.....			



J-2216

This sink can also be furnished with Concealed Combination Supply Fixtures with ½-inch Compression Valves, China Indexed Nickel-plated Brass Handles, Escutcheons and Short Nozzle.

Prices for porcelain sinks are quoted for kiln run ware. Extra charge will be made for special selection.



## PORCELAIN SINKS



J-2218

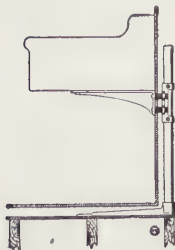
Porcelain Roll Rim Sink with Integral Back on Carrier Built-in Wall, with Iron Brackets, Nickel-plated Brass Combination Supply Fitting with Spray Regulator and Compression Valves with China Indexed Four-ball Handles and  $\frac{1}{2}$ -inch Iron Pipe Size, Female Union Couplings and Escutcheons, Nickel-plated Open Strainer and Coupling,  $1\frac{1}{2}$ -inch Nickel-plated P Trap, Ash Drain Boards for Right and Left Hand Ends, 24 Inches Long, Hinged to White Painted Iron Wall Brackets.

Size Over All, 37x27 inches      Depth Inside, 9 inches  
 Height of Back Over Rim,  $4\frac{1}{2}$  inches

Price, as described. ....

" Sink with Carrier, Less Fittings. ....

Prices on porcelain sinks are quoted on kiln-run ware. An extra charge will be made for special selection.



The carrier built into the floor and wall completely covered by floor and wall finish carries the sink without placing any part of the weight of the sink on the wall structure and provides the most sanitary means of supporting the sink when an unobstructed space under the sink is desired. The carrier may be installed so as to set the sink any desired height from the floor. Ample adjustment is assured by the threaded base bolts to which the brackets are bolted to provide for any variation in thickness of wall finish after the carrier has been built in.

PORCELAIN SINKS



J-2220

Porcelain Roll Rim Sink with Integral Back and Porcelain Legs with Iron Straps to Wall, Nickel-plated Compression Bibbs with Four-ball China Indexed Handles, Nickel-plated Open Strainer and Coupling, 1½-inch Nickel-plated P Trap.

Size of Sink Outside .....	inches	22x24	22x30	24x36	24x42
Depth Inside.....	"	7	7	7	7
Height of Back.....	"	9	9	9	9
"    from Floor to Rim .....	"	36	36	36	36
Price, as described.....	"	.....	.....	.....	.....
"    Sink, less Fittings .....	"	.....	.....	.....	.....



J-2222

This sink can also be furnished with concealed combination supply fitting with ½-inch compression valves with china indexed handles and short nozzle as shown or with any of the swinging combinations used on other sinks.

Prices for porcelain sinks are quoted for kiln run ware. Extra charge will be made for special selection,

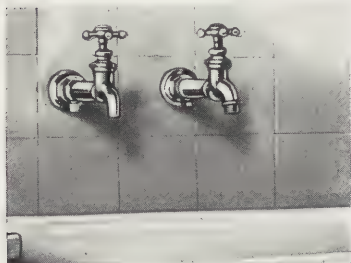
## PORCELAIN SINKS



J-2224

Porcelain Roll Rim Sink on Porcelain Legs with Iron Straps to Wall, Nickel-plated Concealed Combination Supply Fitting with  $\frac{1}{2}$ -inch Compression Valves, Long Nozzle, Four-ball China Indexed Handles, Nickel-plated Open Strainer and Coupling,  $1\frac{1}{2}$ -inch Nickel-plated P Trap, Ash Drainboards for Right and Left Hand End, each 24 inches long, hinged to White Painted Wall Brackets.

Size of Sink Outside .....	inches	17x24	20x30	23x36	24x42
Depth Inside .....	"	6	$7\frac{1}{2}$	$7\frac{1}{2}$	$7\frac{1}{2}$
Height from Floor to Rim .....	"	36	36	36	36
Price, as described .....		.....	.....	.....	.....
" Sink, less Fittings .....		.....	.....	.....	.....



J-2226

This sink may also be furnished with Nickel-plated compression bibbs with four-ball china indexed handles as shown herewith or any of the swinging combinations used on other sinks.

Prices on porcelain sinks are based on kiln run ware. Extra charge will be made for special selection.

## MARBLE TOP ENAMELED SINKS



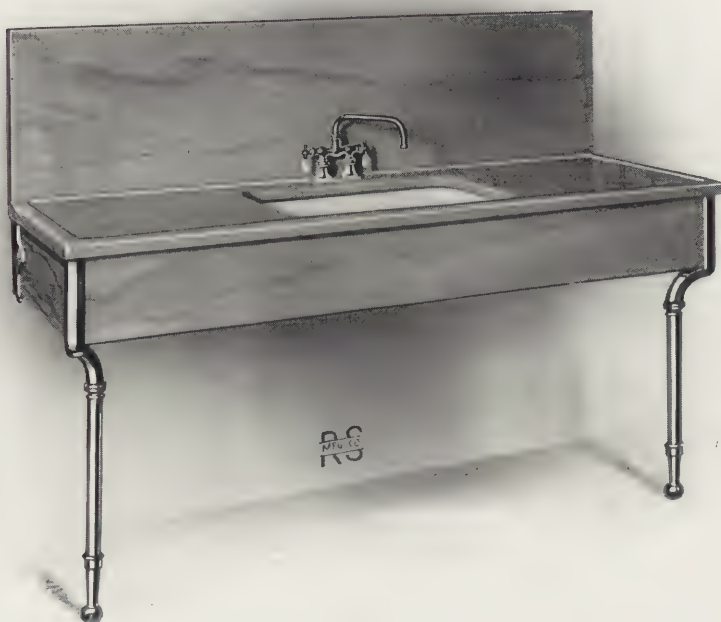
J-2228

Enameled Iron Flat Top Sink set in 1½-inch thick Countersunk Tennessee Marble Top, ⅞-inch thick Tennessee Marble Back 20 inches high and 8-inch Aprons, Nickel-plated Brass Apron Supports, Receding Sink Leg, Concealed Wrought Iron Sink Supports, Concealed Body Compression Combination Supply Fixture with Soap Cup and Swinging Spout, Nickel-plated Trap.

Size of Sink	Length of Slab	Width of Slab		
20x30 inches	6 feet 6 inches	26 inches		
22x36 inches	7 feet	28 inches		
22x42 inches	7 feet 6 inches	28 inches		
Sizes.....		20x30	22x36	22x42
Price, as described.....		.....	.....	.....



## MARBLE TOP ENAMELED SINKS



J-2230

Enameled Iron Flat Top Sink set in  $1\frac{1}{2}$ -inch thick Countersunk Tennessee Marble Top,  $\frac{7}{8}$ -inch thick Tennessee Marble Back 20 inches high and 8-inch Aprons, Nickel-plated Brass Apron Supports, Receding Legs, Concealed Wrought Iron Sink Supports. Fuller Combination Swinging Faucet with China Handles and Nickel-plated Trap.

	Size of Sink	Length of Slab	Width of Slab	
	20x30 inches	6 feet 6 inches	28 inches	
	22x36 inches	7 feet	30 inches	
	22x42 inches	7 feet 6 inches	30 inches	
Sizes.....			20x30	22x36
Price, as described.....			.....	.....

Can furnish other style sink supply fittings.

## ENAMELED IRON APRON SINKS

### ONE PIECE



J-2298

Enameled Iron Roll Rim Sink with Apron, Double Drain Boards and 12-inch Back all in one piece, Enameled Adjustable Legs, Concealed Wall Hangers, Nickel-plated Fuller Flanged Bibbs, 1½-inch Nickel-plated Plain P Trap and Nickel-plated Brass Strainer with Coupling and Tail Piece.

Sink Inches	Drain Board Inches	Back Inches	Apron Inches	Length Over All Inches	Width Over All Inches
20x30	20x24	12	6	74½	20¼
22x26	22x19	12	6	60½	22¼
22x30	22x24	12	6	74½	22¼

Size .....	inches	20x30	22x26	22x30
Price, as described .....		.....	.....	.....
“ less Bibbs and Trap .....		.....	.....	.....
Add for Rubber Drain Board Mats .....	each	.....	.....	.....
If with Painted Legs Instead of Enameled Iron Legs, deduct per pair .....		.....	.....	.....

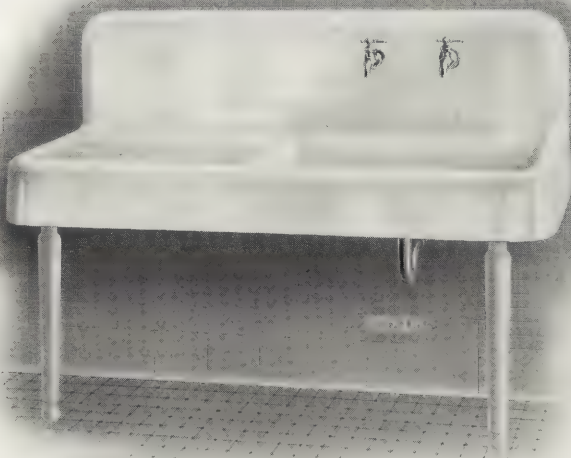
From floor to top of rim, adjustable from 30 to 36 inches.

Special length legs allowing sink adjustment from 36 to 41 inches can be furnished.

Can be furnished with fittings as shown on any of the other sinks.

## ENAMELED IRON APRON SINKS

### ONE PIECE



J-2300

Enameled Iron Roll Rim Sink with Apron, Left-hand Drain Board, and Back all in one piece, Enameled Iron Adjustable Legs. Concealed Wall Hangers, Nickel-plated Fuller Flanged Bibbs, 1½-inch Nickel-plated Plain P Trap, Open Nickel-plated Brass Strainer with Coupling and Tail Piece.

Sink Inches	Drain Board Inches	Back Inches	Apron Inches	Length Over All Inches	Width Over All Inches
20x30	20x24	12	6	52½	20¼
*22x30	22x24	12	6	52½	22¼

Size.....	inches	20x30	22x30
Price, as described.....			
“ less Bibbs and Trap.....			

If with Rubber Drain Board Mat, add 20x24 inch, 22x24 inch.....

“ “ Painted Legs instead of Enameled Legs, deduct, per pair....

From floor to top of rim, adjustable from 30 to 36 inches.

Special length legs allowing sink adjustment from 36 to 41 inches can be furnished.

Also furnished with right-hand drain board.

\*The 22x30-inch sink with right-hand drain board measures over all; length 56 inches, width, 23 inches.

Can be furnished with fittings as shown on any of the other sinks.

## ENAMELED IRON APRON SINKS

KITCHENETTE TYPE

ONE PIECE



J-2302

Enameled Iron Roll Rim Sink with Apron, Left-hand Drain Board and Back all in one piece, Concealed Wall Hangers, Nickel-plated Fuller Bibbs, 1½-inch Nickel-plated P Trap and Open Nickel-plated Strainer.

Sink 20x24 inches    Drain Board 20x20 inches    Back 12 inches  
Length Over All 42½ inches    Width Over All 20¼ inches

Price, as described . . . . .  
 " less Bibbs and Trap . . . . .  
 If with Enameled Adjustable Iron Legs, add . . . . .  
 " " Painted Adjustable " " " . . . . .

Also furnished with Right-hand Drain Board.

Can be furnished with fittings as shown on any of the other sinks.



## ENAMELED IRON APRON SINKS

## ONE PIECE



J-2304

Enameled Iron Roll Rim Sink with Apron, Left-hand Drain Board, Back and Right-hand End all in one piece, Enameled Iron Adjustable Leg, Concealed Wall Hangers, Nickel-plated Compression Flanged Bibbs, 1½-inch Nickel-plated P Trap, Open Nickel-plated Brass Strainer with Coupling and Tail Piece.

Sink Inches	Drain Board Inches	Back Inches	Apron Inches	Length Over All Inches	Width Over All Inches
*20x30	20x24	12	6	*52¼	*20¼
22x30	22x24	12	6	55¾	23

Sizes.....	20x30	22x30
Price, as described.....	.....	.....
“ less Bibbs and Trap.....	.....	.....
If with Rubber Drain Board Mat, add.....	.....	.....
“ “ Painted Iron Leg instead of Enameled Iron Leg, deduct... ..	.....	.....

\*The 20x30-inch sink can also be furnished with right-hand drain and left-hand end and measures over all: length, 54 inches; width, 21 inches.

From floor to top of rim, adjustable from 30 to 36 inches.

Can be furnished with special length leg, allowing sink adjustment from 36 to 41 inches in height and with fittings as shown on any of the other sinks.

## ENAMELED IRON APRON SINKS

### ONE PIECE



J-2306

Enameled Iron Roll Rim Sink with Apron, Left-hand Drain Board, Back and Left-hand End all in one piece, Enameled Iron Adjustable Leg, Concealed Wall Hangers, Nickel-plated Compression Flanged Bibbs, 1½-inch Nickel-plated P Trap, Open Nickel-plated Strainer with Coupling and Tail Piece.

*Sink Inches	Drain Board Inches	Back Inches	Apron Inches	*Length Over All Inches	*Width Over All Inches
22x30	22x24	12	6	52¼	22¼

Price, as described.....

“ less Bibbs and Trap.....

If with Rubber Drain Board Mat, add.....

“ “ Painted Leg instead of Enameled Leg, deduct.....

From floor to top of rim, adjustable from 30 to 36 inches.

Special length legs allowing sink adjustment from 36 to 41 inches can be furnished.

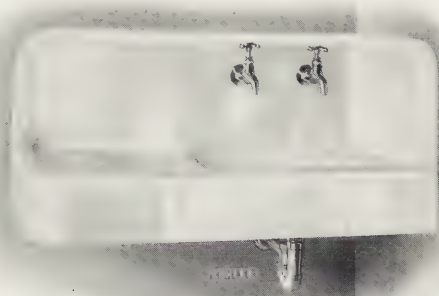
\*Can also be furnished with right-hand drain board and right-hand end and measures over all: Length, 55½ inches, width 23 inches.

Can be furnished with fittings as shown on any of the other sinks.

## ENAMELED IRON APRON SINKS

### KITCHENETTE CORNER TYPE

#### ONE PIECE



J-2308

Enameled Iron Apron Sink with Back, Right Hand End and Left Hand Drain all in One Piece, on Concealed Hangers, Nickel-plated Compression Flange Bibbs, 1½-inch Nickel-plated P Trap and Nickel-plated Strainer.

Sink 20x24 inches    Drain Board 20x20 inches    Back 12 inches  
Length Over All 42¼ inches    Width Over All 20¼ inches

Price, as described .....  
" without Fittings. ....

J-2310 same as above except with Left Hand End and Right Hand Drain.



J-2312

Enameled Iron Apron Sink with Back, Left Hand End and Left Hand Drain all in One Piece, on Concealed Hangers, Nickel-plated Compression Flange Bibbs, 1½-inch Nickel-plated P Trap and Nickel-plated Strainer.

Sink 20x24 inches    Drain Board 20x20 inches    Back 12 inches  
Length Over All 42¼ inches    Width Over All 20¼ inches

Price, as described .....  
" without Fittings. ....

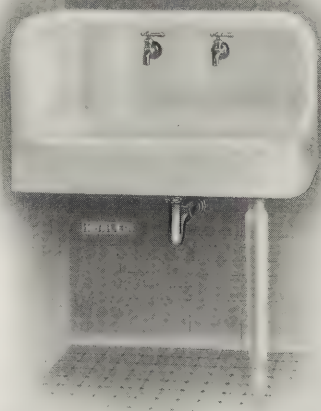
J-2314 same as above except with Right Hand End and Right Hand Drain.

If desired the above sinks can be furnished with legs allowing sink adjustment 30 to 36 inches from floor to top of rim or special length legs allowing adjustment 36 to 41 inches.

Can be furnished with fittings shown on any of the other sinks.

## ENAMELED IRON APRON SINKS

### ONE PIECE



J-2316

Enameled Iron Roll Rim Sink with Apron, Back and Left-hand End All in one piece, Enameled Iron Adjustable Leg, Concealed Wall Hangers, Nickel-plated Fuller Flanged Bibbs, 1½-inch Nickel-plated Brass P Trap, Open Nickel-plated Brass Strainer with Coupling and Tail Piece. Also furnished with Right-hand End.

Sink, 18x30 in.	Back, 12 in.	Apron, 6 in.
Sink, 20x30 in.	Back, 12 in.	Apron, 6 in.

Sizes . . . . .	18x30	20x30
Price, as described . . . . .	.....	.....
" less Bibbs and Trap . . . . .	.....	.....
If with Painted Leg, deduct . . . . .	.....	.....

From floor to top of rim adjustable from 30 to 36 inches.

Special length legs allowing sink adjustment from 36 to 41 inches.

Can be furnished with fittings as shown on any of the other sinks.

Enameled Iron Roll Rim Sink with Apron and Back all in one piece, Concealed Wall Hangers, Nickel-plated Fuller Flanged Bibbs, 1½-inch Nickel-plated Brass P Trap, Open Nickel-plated Brass Strainer with Coupling and Tail Piece.

Sink, 18x30 in.	Back, 12 in.	Apron, 6 in.
Sink, 20x30 in.	Back, 12 in.	Apron, 6 in.

Sizes . . . . .	18x30	20x30
Price, as described . . . . .	.....	.....
" less Bibbs and Trap . . . . .	.....	.....
If with Enameled Iron Adjustable Legs, add, per pair . . . . .	.....	.....
" with Painted Iron Adjustable Legs, add, per pair . . . . .	.....	.....

Can be furnished with fittings as shown on any of the other sinks.



J-2318



## ENAMELED IRON ROLL RIM SINKS

### ONE PIECE



J-2320

Enameled Iron Roll Rim Sink with Back, Right-hand End, and Left-hand Drain Board all in one piece, Concealed Hangers, Painted Iron Adjustable Leg, Nickel-plated Fuller Flanged Bibbs, Open Nickel-plated Strainer and 1½-inch P Trap.

Sink Inches	Drain Board Inches	Back Inches	Length Over All Inches	Width Over All Inches
20x30	20x24	12	52	20
22x30	22x24	12	55½	22¾

Size.....inches      20x30      22x30

Price, as described.....

“ without Bibbs and Trap.....

If with Enameled Leg instead of Painted, add.....

If with Rubber Drain Board Mat, add, 20x24 .... 22x24 ....

From floor to top of rim adjustable from 30 to 36 inches

Special length legs allowing sink adjustment from 36 to 41 inches can be furnished.

Furnished with Left-hand End and Right-hand Drain Board at same price.

Can be furnished with fittings as shown on any of the other sinks.

## ENAMELED IRON ROLL RIM SINKS

### ONE PIECE



J-2322

Enameled Iron Roll Rim Sink with Back and Left-hand End Piece and Left-hand Drain Board all in one piece, Concealed Wall Hangers, Painted Iron Adjustable Leg, Nickel-plated Compression Female Flange Bibbs, with Four-ball China Index Handles, 1½-inch Nickel-plated P Trap, Open Nickel-plated Strainer and Tail Piece.

Sink, 22x30 inches    Drain Board, 22x24 inches    Back, 12 inches  
Length Over All, 55½ inches    Width Over All, 22¾ inches

Price, as described.....	.....
“ without Bibbs, and Trap.....	.....
If without Leg, deduct.....	.....
“ with Enameled Leg, instead of Painted, add.....	.....
“ “ Rubber Drain Board Mat, add.....	.....

From floor to top of rim adjustable from 30 to 36 inches.

Special length legs allowing sink adjustment from 36 to 41 inches can be furnished.

Also furnished with right-hand end piece and right-hand drain board.

Can be furnished with fittings as shown on any of the other sinks.

## ENAMELED IRON ROLL RIM SINKS

### KITCHENETTE CORNER TYPE

#### ONE PIECE

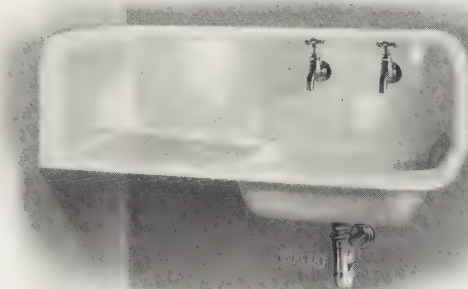


J-2324

Enameled Iron Roll Rim Sink with Back, Right Hand End and Left Hand Drain all in One Piece, on Concealed Hangers, Nickel-plated Compression Flange Bibbs, 1½-inch Nickel-plated P Trap and Nickel-plated Strainer.

Sink 20x24 inches    Drain Board 20x20 inches    Back 12 inches  
Length Over All 42 inches    Width Over All 20 inches

Price, as described.....  
 " without Fittings.....  
 J-2326 same as above except with Left Hand End and Right Hand Drain.



J-2328

Enameled Iron Roll Rim Sink with Back, Left Hand End and Left Hand Drain all in One Piece, on Concealed Hangers, Nickel-plated Compression Flange Bibbs, 1½-inch Nickel-plated P Trap and Nickel-plated Strainer.

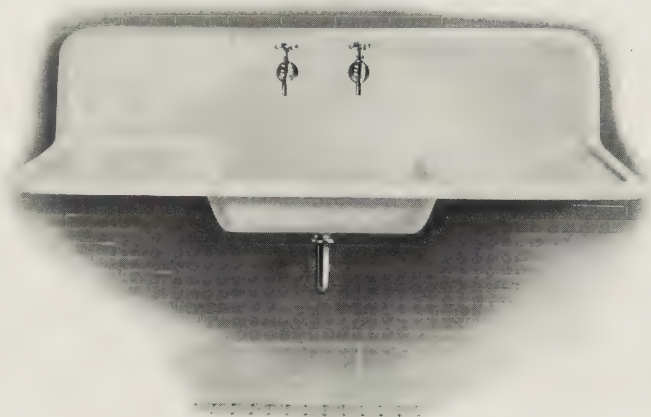
Sink 20x24 inches    Drain Board 20x20 inches    Back 12 inches  
Length Over All 42 inches    Width Over All 20 inches

Price, as described.....  
 " without Fittings.....  
 J-2330 same as above except with Right Hand End and Right Hand Drain.

If desired the above sink can be furnished with legs allowing sink adjustment 30 to 36 inches from floor to top of rim or special length legs allowing adjustment 36 to 41 inches. Can be furnished with fittings shown on any of the other sinks.

# ENAMELED IRON ROLL RIM SINKS

ONE PIECE



J-2332

Enameled Iron Roll Rim Sink with Back and Right and Left-hand Drain Boards on Concealed Wall Hangers, Nickel-plated Compression Bibbs, with Four-ball China Index Handles, Nickel-plated Strainer and 1½-inch Nickel-plated Adjustable P Trap.

Size Inches	Drain Board Inches	Depth Inside Inches	Back Inches	Length Over All Inches	Width Over All Inches
22x26	22x19	6	12	60	22

Price, as described.....  
 " without Bibbs and Trap.....

May also be furnished with painted or enameled adjustable legs.



## ENAMELED IRON ROLL RIM SINKS

ONE PIECE



J-2334

Enameled Iron Roll Rim Sink with Back and Left hand Drain Board all in one piece, with Concealed Hangers, Nickel-plated Fuller Bibbs, 1½-inch Nickel-plated P Trap and Open Nickel-plated Strainer.

Sink Inches	Drain Board Inches	Back Inches	Length Over All Inches		Width Over All Inches	
20x24	20x20	12	42		20	
20x26	20x18	12	44½		20½	
20x28	20x20	12	49		20½	
*20x30	20x24	12	52		20	
22x30	22x24	12	55¼		22½	
22x36	22x26	12	60		22	
Size.....inches	20x24	20x26	20x28	20x30	22x30	22x36
Price, as described.....each	.....	.....	.....	.....	.....	.....

Also furnished with Right-hand Drain Board.

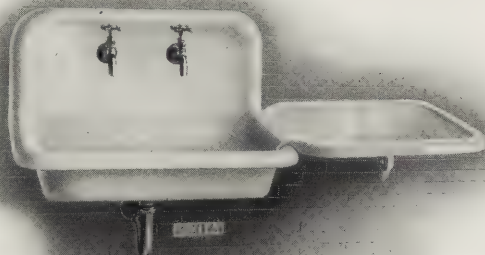
\*The 20x30 inch Sink with Right Hand Drain Board measures over all: length 55¼ inches, width 20½ inches.

If desired, can be furnished with legs allowing sink adjustment 30 to 36 inches from floor to top of rim, or special length legs allowing adjustment 36 to 41 inches.

Can be furnished with fittings as shown on any of the other sinks.

## ENAMELED IRON ROLL RIM SINKS

ONE PIECE



J-2336

Enameled Iron Roll Rim Sink with 12-inch Back in one piece, Concealed Hanger, 24-inch Enameled Iron Interchangeable Drain Board on Concealed Bracket, Nickel-plated Compression Bibbs with China Indexed Four-ball Handles, Open Nickel-plated Strainer and 1½-inch Nickel-plated P Trap.

Sizes.....	16x24	18x18	18x24	18x30	20x20	20x24
Price, as described.....	.....	.....	.....	.....	.....	.....
“ less Bibbs and Trap..	.....	.....	.....	.....	.....	.....
Sizes.....	20x30	20x36	20x40	22x30	22x36	22x42
Price, as described.....	.....	.....	.....	.....	.....	.....
“ less Bibbs and Trap..	.....	.....	.....	.....	.....	.....

If with Enameled Iron Adjustable Legs, add, per pair.....	.....
“ “ Painted Adjustable Legs, add, per pair.....	.....
“ “ Drain Board 18 inches Long, deduct, each.....	.....
“ “ Plug Strainer with Rubber Stopper, add.....	.....

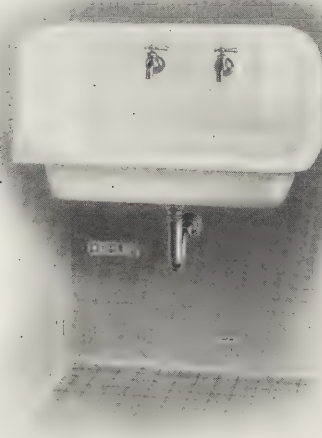
Can be furnished with fittings as shown on any of the other sinks.

## ENAMELED IRON ROLL RIM SINKS

### ONE PIECE



J-2338



J-2340

#### J-2338

Enameled Iron Roll Rim Sink with 12-inch Back in one piece, Concealed Wall Hangers, Nickel-plated Fuller Flanged Bibbs, 1½-inch Nickel-plated Brass P Trap, Open Nickel-plated Brass Strainer with Coupling and Tail Piece.

Size .....	inches	16x24	18x18	18x24	18x30	20x20	20x24
Price, as described .....							
“ Less Bibbs and Trap .....							
Size .....	inches	20x30	20x36	20x40	22x30	22x36	22x42
Price, as described .....							
“ Less Bibbs and Trap .....							

#### J-2340

Enameled Iron Roll Rim Sink with 12-inch Back and Left-hand End all in one piece, Concealed Wall Hangers, Nickel-plated Fuller Flanged Bibbs, 1½-inch Nickel-plated Brass P Trap, Open Nickel-plated Brass Strainer with Coupling and Tail Piece.

Size .....	inches	16x24	18x24	18x30	18x36	20x30	20x36	20x40
Price, as described .....								
“ less Bibbs and Trap .....								

Also furnished with right-hand end piece.

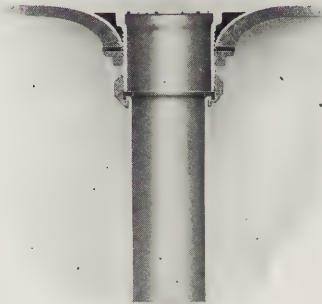
Can be furnished on enameled or painted adjustable legs and with fittings as shown on any other sinks.

## ENAMELED IRON SINKS

### FLAT RIM, NEW STYLE



J-2342



J-2344

No bolts are required to fit this strainer to the sink. The strainer is drawn tight onto the outlet by means of a locknut on the shank. The top flange and shank are made in one piece and the center plate screws flush into the top of plug. The strainer plate can be easily removed. Can be furnished with coupling threaded for  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  or 2-inch iron pipe.

Size Inches	Price Each	Size Inches	Price Each
12x18	.....	20x24	.....
14x20	.....	20x30	.....
16x24	.....	20x36	.....
18x24	.....	20x40	.....
18x30	.....	22x36	.....
18x36	.....	24x48	.....

If with patent overflow and plug strainer add.....



## ENAMELED IRON SINK BACKS AND ENDS

SINK BACKS, FOR FLAT RIM SINKS

12 INCHES HIGH



J-2346

Length.....	inches	20	24	30	36	40	48
Price.....	each	....	....	....	....	....	....

END PIECE FOR FLAT RIM SINK

CORNER BACK FOR FLAT RIM SINK



J-2348



J-2350

CORNER BACKS FOR FLAT RIM SINKS

12 INCHES HIGH

Length.....	inches	20	24	30	36
Price.....	each	....	....	....	....

END PIECES, FOR FLAT RIM SINKS

12 INCHES HIGH

Length.....	inches	16	18	20
Price.....	each	....	....	....

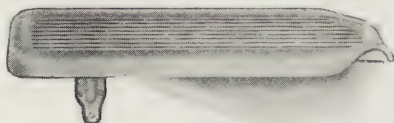
Sink backs are regularly furnished with two cock holes 8 inches center to center. Sink backs with one hole only will be furnished at same price. For special drilling, prices upon application.

In ordering end pieces, state whether right or left-hand end is desired.

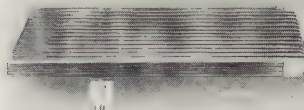
## DRAIN BOARDS

**HARDWOOD—INTERCHANGEABLE  
WITH ENAMELED END**

**ENAMELED IRON—INTERCHANGEABLE**



J-2352



J-2354

### ENAMELED IRON—INTERCHANGEABLE

With Wall Support for Roll Rim Sinks

With.....	inches	16	18	20	22
Price, 18 Inches Long.....	each	6.35	6.95	7.50	8.10
" 24 " " ".....	"	7.50	8.10	8.65	9.25

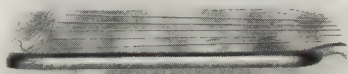
### HARDWOOD—INTERCHANGEABLE

With Enameled End for Roll Rim Sinks

Width.....	inches	16	18	20	22
Price, 18 Inches Long.....	each	4.90	4.90	5.15	5.50
" 24 " " ".....	"	5.50	5.50	5.80	6.05
" 30 " " ".....	"	6.05	6.05	6.35	6.65

**HARDWOOD—WITH NICKEL-PLATED  
BACK HINGES AND TELESCOPE LEG**

**HARDWOOD—INTERCHANGEABLE**



J-2356



J-2358

### HARDWOOD—INTERCHANGEABLE

Width.....	inches	18	18	18	18	18	20
Length.....	"	18	20	22	24	30	36
Price.....	each	3.15	3.40	3.65	3.95	5.00	5.75
Width.....	inches	20	20	20	22	22	22
Length.....	"	24	30	36	18	24	30
Price.....	each	4.45	5.25	5.75	4.20	5.00	5.75

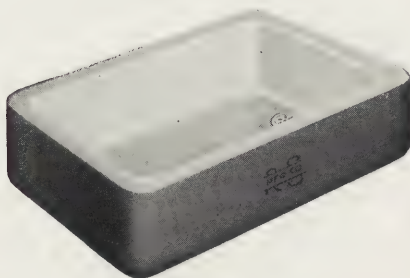
### HARDWOOD—WITH TELESCOPE LEG

Prices upon application. Give length and width desired.

## PORCELAIN SINKS

### PORCELAIN KITCHEN SINKS

#### WITHOUT OVERFLOW



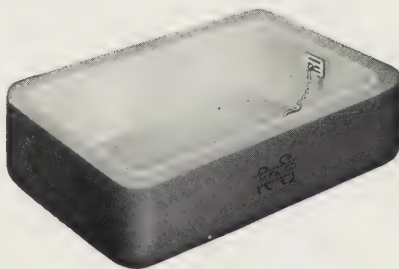
J-2418

Porcelain Flat Rim Kitchen Sink Glazed Inside, with Nickel-plated Strainer.

Size .....	inches	20x30	23x36	24x42	24x48
Depth Inside .....	"	7	7	7	7
Price, as described.....		.....	.....	.....	.....

### PORCELAIN PANTRY SINKS

#### WITH OVERFLOW



J-2420

Porcelain Flat Rim Pantry Sink Glazed Inside, with Nickel-plated Strainer and Nickel-plated Plug and Coupling.

Size .....	inches	14x20	17x24	17x28	20x30
Depth Inside .....	"	5	6	6	7
Price, as described.....		14.20	17.30	20.95	24.10

Prices on porcelain sinks are for kiln-run ware, extra charge for special selection.

COPPER AND NICKEL SILVER PANTRY SINKS

Oval  
With Patent Overflow and Plug



J-2422

Square  
With Patent Overflow and Plug



J-2424

Size .....	inches	12x18	12x20	14x16	14x20	14x24	16x24	16x30	18x30
Price, Oval, Copper.....	each	.....	.....	.....	.....	.....	.....	.....	.....
" " Nickel Silver... "		.....	.....	.....	.....	.....	.....	.....	.....
" Square, Copper..... "		.....	.....	.....	.....	.....	.....	.....	.....
" " Nickel Silver... "		.....	.....	.....	.....	.....	.....	.....	.....

Sinks are furnished with Patent Overflow and Waste Plug.

WITH BACK AND GROOVED WOODEN DRAIN BOARD



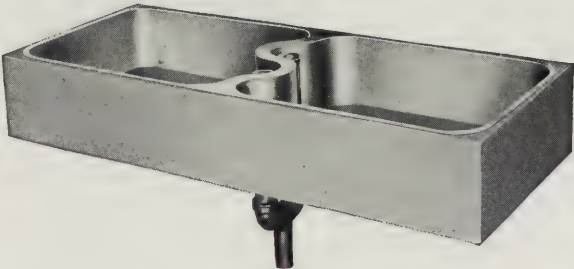
J-2426

Square Sink with Two Wood Drain Boards and Back Covered with Copper or Nickel Silver. When ordering give outside measurements, length, width, height of back, length of drain board.

Prices upon application.

Can be fitted with Oval Sink, One Drain Board, End Pieces or for Recess.

DOUBLE SINK WITH S DIVIDING PARTITION



J-2428

Encased in Plain Wood Box with Two Nickel-plated Standing Overflows, Couplings and Tail Pieces, Nickel-plated Twin Waste Connection with 4½-inch Centers for 1½-inch Trap.

Size .....	inches	14x36	14x48	16x40	16x48	18x48	18x60	20x48	20x60
Price, Copper.....	each	.....	.....	.....	.....	.....	.....	.....	.....
" " Nickel Silver... "		.....	.....	.....	.....	.....	.....	.....	.....

All measurements are inside including the partition.

Above Sinks can be furnished in either Planished or Tinned Copper.



## SCULLERY SINKS

### DOUBLE SINK WITH WOODEN TOP AND MARBLE BACK



J-2432

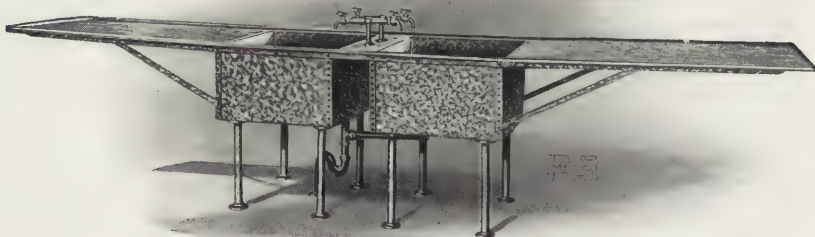
Galvanized Sheet Steel Twin Sinks set in Wooden Top with Wooden Apron and Marble Back, Nickel-plated Fuller Faucets with China Handles, 1½-inch Traps Top Supported on Galvanized Iron Brackets.

Total Length 126 inches  
Length, each Sink 30 inches

Width 24 inches  
Depth 10 inches

Price, as described.....

### DOUBLE SINK WITH GALVANIZED DRAIN BOARDS



J-2434

Galvanized Sheet Steel Twin Sinks, Supported on Galvanized Steel Pipe Legs with Extra Long Drainboards of Galvanized Steel, Compression Faucets with Nickel-plated Brass Standards and 2-inch Galvanized Trap.

Total Length 156 inches  
Length, each Sink 26 inches

Width 24 inches  
Depth 16 inches

Price, as described.....

The above sinks can be made of plain or galvanized sheet steel and of any practical gauge. No. 12 is usually used for small to medium size sinks. Sinks and drainboards can be made in any size desired.

## SCULLERY SINKS

### SINK WITH GALVANIZED BACK, END AND DRAIN BOARD



J-2436

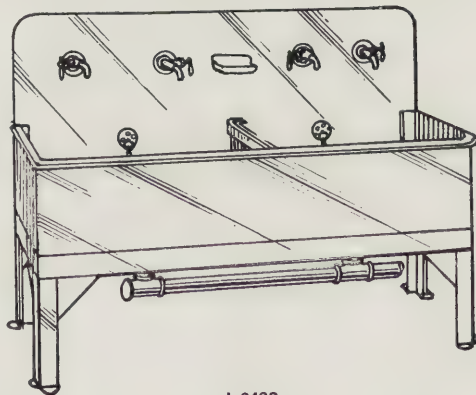
Galvanized Sheet Steel Sink Supported on Galvanized Steel Pipe Legs with Drain-board, 17-inch Back and End Piece, N. P. Fuller Faucets and 1½-inch Galvanized Trap.

Total Length, 72 inches  
Length Sink, 26 inches

Width, 32 inches  
Depth, 10 inches

Price, as described. ....

### SINK WITH PARTITION AND BACK



J-2438

Galvanized Sheet Steel Sink with Partition and 15-inch High Back and Rolled Edge Front, Supported on Reinforced Galvanized Steel Frame, fitted with ½-inch Fuller Tray Faucets, Overflow Strainers and Waste Plugs.

Length 60 inches

Width 24 inches

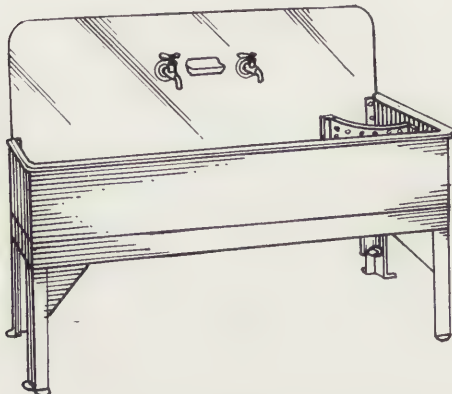
Depth 12 inches

Price, as described. ....

These sinks can be made of plain or galvanized sheet steel in any size or style.

## SCULLERY SINKS

### SINK WITH STRAINER AND BACK



J-2440

Galvanized Sheet Steel Sink, with 15-inch High Back, Rolled Edge Front and Sides, with Heavy Galvanized Perforated Corner Strainer, Supported on Reinforced Galvanized Steel Frame, fitted with Nickel-plated Fuller Flanged Faucets.

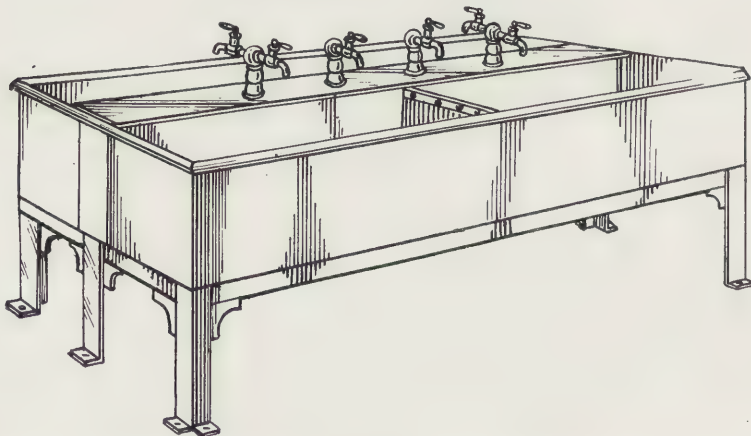
Length 60 inches

Width 24 inches

Depth 12 inches

Price, as described.....

### TWIN SINK WITH PARTITION



J-2442

Galvanized Sheet Steel Twin Sinks with Rolled Edge with Dividing Partition in One Sink, Supported on Reinforced Galvanized Steel Double Frame, fitted with Single and Double Fuller Faucets and Waste Plugs.

Length Over Rim 62½ inches

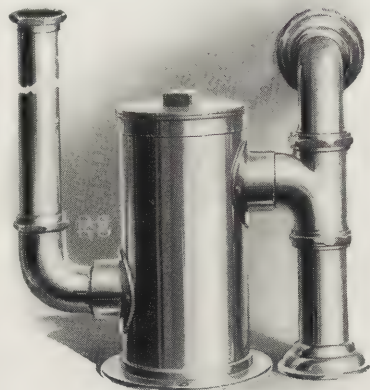
Width Over All 55½ inches

Depth Inside 12 inches

Price, as described.....

The above sinks can be made of plain or galvanized sheet steel and of any practical gauge. No. 12 is usually used for small to medium size sinks. Sinks and drainboards can be made in any size desired.

## GREASE TRAPS



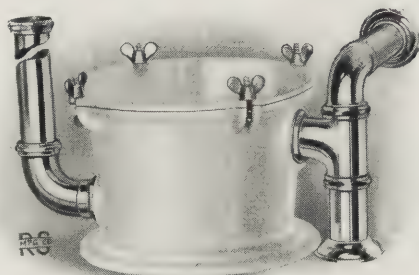
J-2482

### BRASS

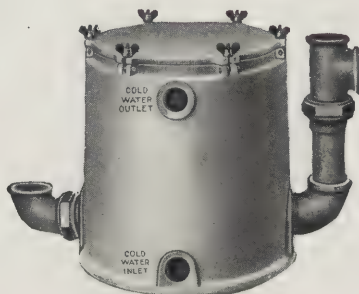
Nickel-plated Brass Grease Trap with 2-inch Connections to Sink and Vent to Wall.

Diameter.....	inches	5
Height.....	inches	10
Price.....	each	18.00
If with 1½-inch Connections, deduct...		1.50

### ENAMELED IRON



J-2484



J-2486

### J-2484

Cast Iron Enameled Grease Trap with 2-inch Nickel-plated Brass Connections to Sink and Vent to Wall.

Diameter.....	inches	13½
Height.....	inches	9½
Price, Enameled In and Out.....	each	22.75
If Enameled Inside only, deduct.....		3.00

### J-2486

Cast Iron Grease Trap, Enameled Inside, with Integral Water Jacket and Galvanized Iron Fittings.

Number .....		1	2	3
Diameter.....	inches	13⅝	17	19¾
Height.....	"	18	19	21
Size of Inlet and Outlet.....	"	2	2	3
" " Tapped Openings for Cold Water.....	"	¾	1¼	2
Price.....	each	34.00	39.00	55.00



## SINK SUPPLY FITTINGS



J-2488

Nickel-plated Fuller Sink Cock with China Handle and Nickel-plated Standard.

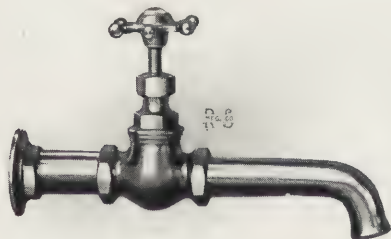
Price.....each ....



J-2490

Nickel-plated Sink Supply Fitting with Standard and Four Compression Bibbs with China Indexed Handles.

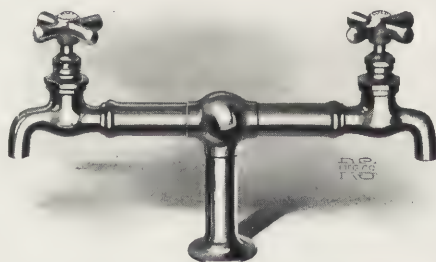
Price.....each ....



J-2492

Nickel-plated Extra Heavy Compression Slop Sink Cock with China Indexed Handle.

Price.....each ....



J-2494

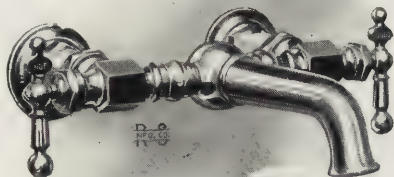
Nickel-plated Compression Double Sink Cock and Standard with China Indexed Handles.

Price.....each ....

## SINK SUPPLY FITTINGS

### FULLER FOR SLOP SINKS

#### PLAIN

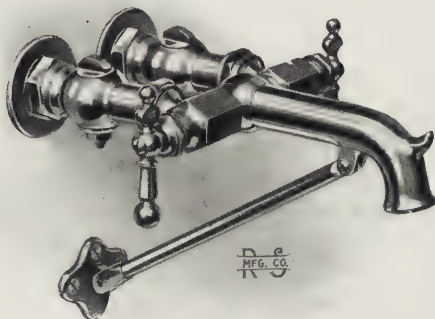


J-2496

Nickel-plated Fuller Slop Sink Cock.  
Distance, Wall to Center,  $9\frac{1}{2}$  inches.

Price.....each .....

#### WITH STOPS AND PAIL BRACE



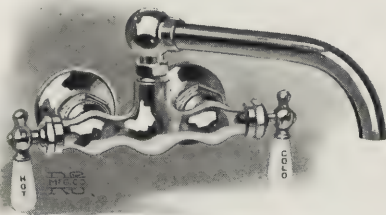
J-2498

Nickel-plated Fuller Slop Sink Cock  
with Stops and Pail Brace. Distance,  
Wall to Center,  $9\frac{1}{2}$  inches.

Price.....each .....

### FOR KITCHEN SINKS

#### WITH TOP SWING SPOUT



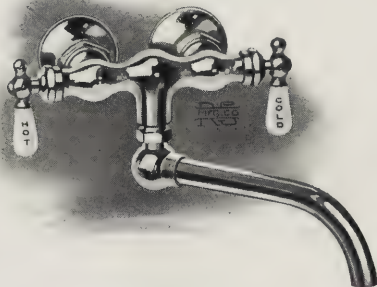
J-2500

Nickel-plated Fuller Double Sink Cock  
with China Handles and Top Swinging  
Spout.

Regularly furnished  $3\frac{3}{8}$  inches center  
to center but wider if desired.

Price.....each .....

#### WITH BOTTOM SWING SPOUT



J-2502

Nickel-plated Fuller Double Sink Cock  
with China Handles and Bottom Swing-  
ing Spout.

Regularly furnished  $3\frac{3}{8}$  inches center  
to center but wider if desired.

Price.....each .....

Any of the above cocks can be furnished with longer or shorter spouts, when  
desired.

## SINK SUPPLY FITTINGS

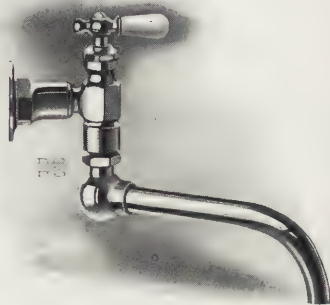
### FULLER



J-2504

Nickel-plated Fuller Sink Cock and Standard.

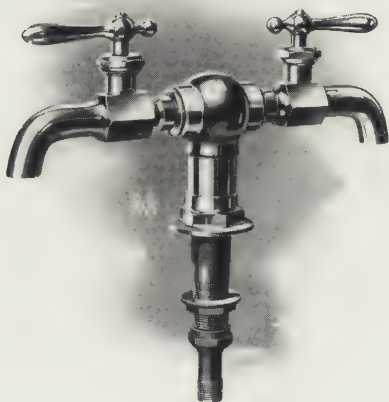
Price.....each ....



J-2508

Nickel-plated Fuller Cock with China Handle and Swinging Spout.

Price.....each ....



J-2506

Nickel-plated Fuller Double Sink Cock and Standard.

Price.....each ....



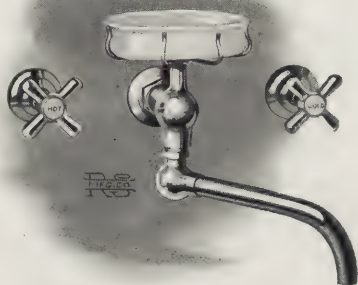
J-2510

Nickel-plated Fuller Double Sink Cock with China Handles and Swinging Spout.

Price.....each ....

## SINK SUPPLY FITTINGS

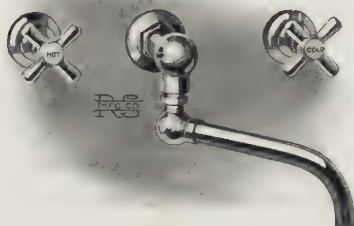
### COMPRESSION



J-2512

Nickel-plated Compression Sink Supply Fitting with Concealed Body Valves with China Indexed Handles, Swinging Spout and China Soap Cup.

Price.....each .....



J-2516

Nickel-plated Compression Sink Supply Fitting with Concealed Body Valves with China Indexed Handles and Swinging Spout.

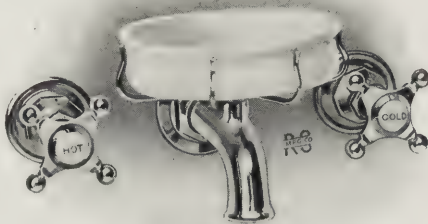
Price.....each .....



J-2514

Nickel-plated Compression Sink Supply Fitting with Concealed Body Valves with China Indexed Handles.

Price.....each .....



J-2518

Nickel-plated Compression Sink Supply Fitting with Concealed Body Valves with China Indexed Handles and China Soap Cup.

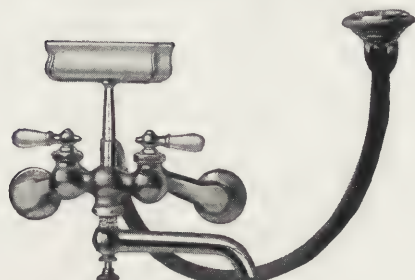
Price.....each .....

Can furnish any sink drilled to receive these fittings. State, when ordering, if fittings are to fit marble or enameled back.



## SINK FAUCETS

### QUATURN CLASSIC SINK FAUCETS WITH SOAP DISH AND SPRAY



J-2520

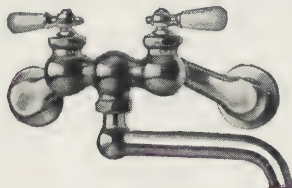
Nickel-plated Classic Sink Faucet with Swinging Spout, Adjustable Arms for  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch Iron Pipe Female, China Handles, China Soap Dish with Drain, Rubber Tubing and Spray.

The water is diverted from the spout through the spray only when the button, below the spout, is held down. This feature makes it impossible to turn off the water at the handle, and leave the spray open.

Made with distance between inlets adjustable from 4 to  $8\frac{3}{8}$  inches, 4 to  $10\frac{5}{8}$  inches and 4 to  $12\frac{3}{8}$  inches. Extends into sink  $3\frac{3}{8}$  inches. Spout has radius of 6 inches.

Price, 4 to $8\frac{3}{8}$ inches.....each	23.00
" 4 " $10\frac{5}{8}$ " " " " "	24.25
" 4 " $12\frac{3}{8}$ " " " " "	25.00

### QUATURN CLASSIC SINK FAUCETS



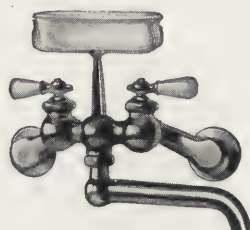
J-2522

Nickel-plated Classic Sink Faucet with Swinging Spout, Adjustable Arms for  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch Iron Pipe Female and China Handles

Made with distance between inlets adjustable from 4 to  $8\frac{3}{8}$  inches, 4 to  $10\frac{5}{8}$  inches and 4 to  $12\frac{3}{8}$  inches. Extends into sink  $3\frac{3}{8}$  inches. Spout has radius of 6 inches.

Price, 4 to $8\frac{3}{8}$ inches.....each	13.00
" 4 " $10\frac{5}{8}$ " " " " "	14.25
" 4 " $12\frac{3}{8}$ " " " " "	15.00

### QUATURN CLASSIC SINK FAUCETS WITH SOAP DISH



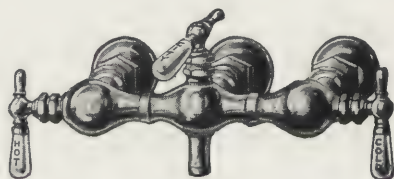
J-2524

Nickel-plated Classic Sink Faucet with Swinging Spout, Adjustable Arms for  $\frac{1}{2}$  or  $\frac{3}{4}$ -inch Iron Pipe Female, China Handles, China Soap Dish with Drain.

Made with distance between inlets adjustable from 4 to  $8\frac{3}{8}$  inches, 4 to  $10\frac{5}{8}$  inches and 4 to  $12\frac{3}{8}$  inches. Extends into sink  $3\frac{3}{8}$  inches. Spout has radius of 6 inches.

Price, 4 to $8\frac{3}{8}$ Inches.....each	16.75
" 4 " $10\frac{5}{8}$ " " " " "	18.00
" 4 " $12\frac{3}{8}$ " " " " "	18.75

### H. K. TRIPLE SINK FAUCETS



J-2526

This faucet is for use where three faucets were formerly required.

It is made quick compression with china index handles, and three supply inlet connections. The two outside connections are for hot and cold soft water controlled by the two side handles.

The center inlet connection is for cold or drinking water controlled by the center top handle

Price.....each	12.00
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## SINK SUPPLY FITTINGS

### QUICK-PRESSION

#### SWINGING SPOUT



**J-2528**

Nickel-plated Quick-Presson Sink Supply Fitting with Swinging Spout, and China Handles.

Price.....each ....

#### SWINGING SPOUT AND SOAP DISH



**J-2532**

Nickel-plated Quick-Presson Sink Supply Fittings with Swinging Spout, and China Handles and China Soap Dish.

Price.....each ....

### COMPRESSION GARAGE SUPPLY FITTINGS

#### BENT SPOUT

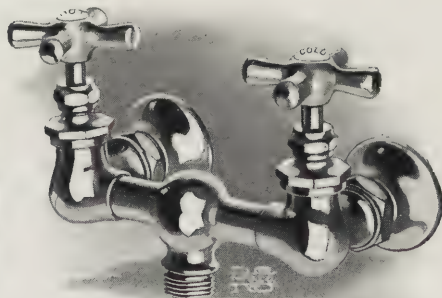


**J-2530**

Nickel-plated Compression Garage Cock with China Indexed Handles with Nozzle, threaded to fit Hose Coupling.

Price.....each ....

#### STRAIGHT SPOUT

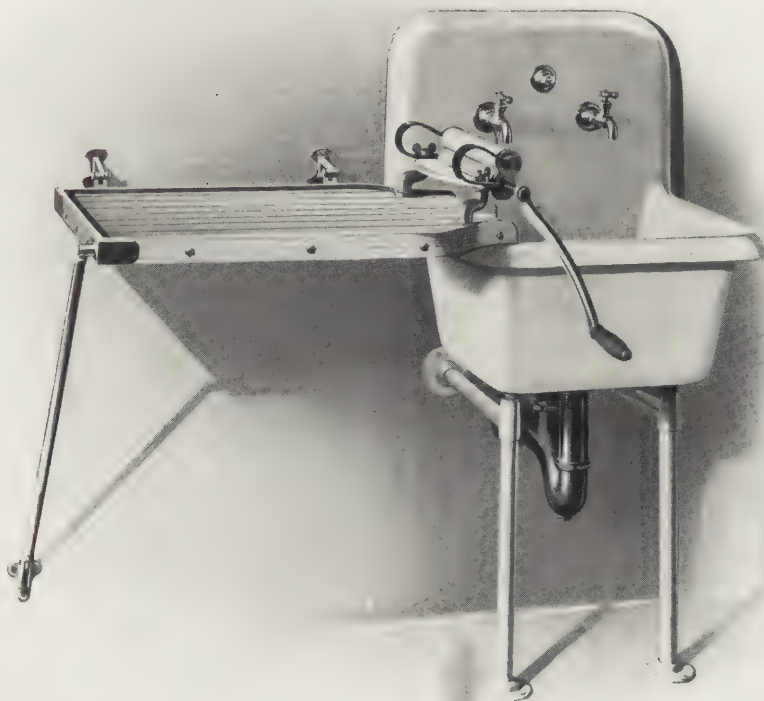


**J-2534**

Nickel-plated Compression Garage Cock with China Indexed Handles, Outlet Connection threaded to fit Hose Coupling.

Price.....each ....

## FOMENTATION SINKS



J-2572

Cast Iron Roll Rim Sink with Integral Back, Enameled Inside and Outside, Painted Iron Legs, Nickel-plated Fuller Flanged Bibbs, 2-inch Nickel-plated Trap, Concealed Body Steam Valve with Loose Key, Steam Muffle, 30-inch Ash Drain Board with Nickel-plated Brass Bracket and Wringer.

Sink 20x24 inches.      Back 14 inches.

Sizes.....	20x24
Price, as described.....	....

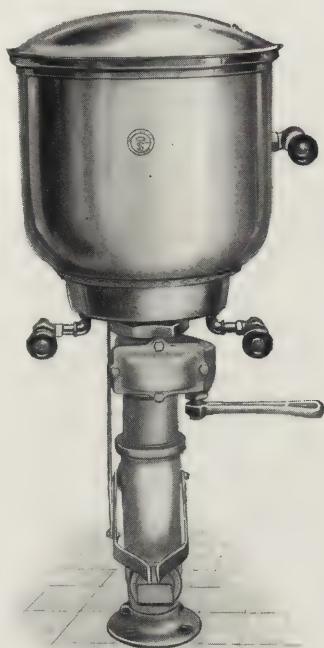
May be furnished with Enameled Iron Trap Standard to allow sink to set lower if desired.

Sink may be furnished in Porcelain Ware at additional price, if desired.

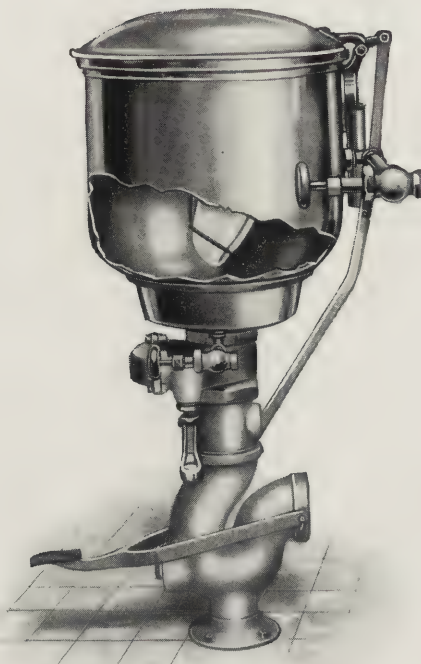


## BED PAN WASHERS AND STERILIZERS

Front View



Side View



J-2574

Nickel-plated Spun Copper Bed Pan Washer and Sterilizer with 3-inch Nickel-plated Quick-opening Valve Outlet, Supported on White Enamel Painted Cast Iron Trap Standard, Threaded for 3-inch Wrought Pipe, Nickel-plated Brass Wood Handle Valves for  $\frac{3}{4}$ -inch Water and  $\frac{3}{8}$ -inch Steam Supplies.

Price, as described.....

Nickel-plated supply pipes to wall from valves, also  $1\frac{1}{4}$ -inch overflow and 2-inch vent pipes not furnished.

This washer and sterilizer is furnished with a cradle into which bed pan is placed. The lowering of the cover tips and empties the pan and puts it in position where the water thoroughly cleanses it inside and outside. If necessary to sterilize the contents as in typhoid cases, the valve on the waste outlet is closed and steam turned on.



## CLINIC SLOP SINKS



J-2578

Vitreous China Flushing Rim Sink, Vitreous China Trap Standard with Floor Flange and Bolts, Concealed Body Compression Combination Supply with China Handles and China Escutcheons, Long Spout with Pail Brace, Concealed Flush Valve with Stop, Located in Wall Box having Detachable Plate Cello Covered.

Price, as described . . . . .

Can furnish Concealed Body Compression Valve for Flushing Rim instead of Flush Valve with Wall Box, shown.

Compression Valves in the above fixture are so constructed that valve seat washers may be replaced without removing valve bodies. Water to flushing rim, also bed pan jet furnished through pedal valves instead of valves shown, when desired.

## VITREOUS CHINA SLOP SINKS



**J-2580**

Vitreous China Syphon Jet Slop Sink with Nickel-plated Royal Flush Valve with Left-hand Side Inlet, 1-inch Ground Joint Union Angle Stop, China Oscillating Handle, 1½-inch Flush Connection, Spud Coupling, Nickel-plated Brass Wall and Spud Connections; in combination with Nickel-plated Brass Combination Supply Fitting with Compression Valves with China Indexed Handles and Wall Stays with Union Couplings and Nickel-plated ¾-inch I. P. Size Supply Pipes to Floor with Shut-off Valves, Long Nozzle with Bucket Hook and Wall Brace with Pipe Stay, Nickel-plated Brass Strainer, China Bolt Caps and Floor Escutcheons.

Sink 20x20 inches  
Wall to Front of Sink, 27½ inches

Price, as described. . . . .	.....
“ without Fittings. . . . .	.....

Vitreous China Flushing Rim Slop Sink with Vitreous China Open Pattern Trap with Cleanout, Nickel-plated Royal Flush Valve with 1-inch Ground Joint Union Angle Stop, China Oscillating Handle, 1½-inch Flush Connection, Spud Coupling, Nickel-plated Wall and Spud Escutcheons, Nickel-plated Combination Supply Fitting with Compression Valves with China Indexed Handles, Wall Stays with Union Couplings, Iron Pipe Size Supply Pipes to Floor with Shut-off Valves, Long Supply Nozzle with Bucket Hook, Wall Brace and Pipe Stay, Nickel-plated Strainer and Trap Connection, China Bolt Caps and Floor Escutcheons.

Sink 20x20 inches



**J-2582**

Price, as described. . . . .	.....
“ without Fittings. . . . .	.....

## PORCELAIN SLOP SINKS



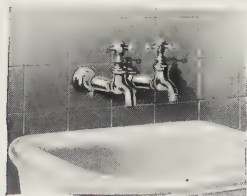
J-2584

Porcelain Slop Sink on Vitreous China Trap, fitted with Nickel-plated Brass Combination Supply Fitting with Long Nozzle with Wall Brace and Compression Valves with China Indexed Handles and  $\frac{3}{4}$ -inch I. P. Size Female Union Couplings with Escutcheons, Nickel-plated Brass Strainer and Trap Connection, China Bolt Caps.

Depth Inside, 12 Inches

Size.....inches      18x22      20x24  
Price, as described.....

Also made in Vitreous China, 20x22 in.



J-2588

This sink can also be furnished with long shank bibbs with integral shut-off as shown in illustration.

Porcelain Slop Sink with Integral Back, on Vitreous China Trap, fitted with Concealed Combination Supply Fitting with  $\frac{3}{4}$ -inch I. P. Size Compression Valves with China Indexed Nickel-plated Brass Handles, Escutcheons and Short Nozzle, Nickel-plated Brass Strainer and Trap Connection, China Bolt Caps.

Depth Inside, 12 inches  
Back, 12 inches

Size.....inches      20x22      20x24  
Price, as described.....



J-2586

This sink can also be furnished with compression bibbs as shown in illustration.



J-2590

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# ENAMELED IRON SLOP SINKS



J-2592

Enameled Inside Iron Roll Rim Slop Sink with 14-inch Integral Back, on Enameled Inside S Trap Standard with Cleanout, Nickel-plated Fuller Bibbs.

Size, inches	16x20x12	18x22x12	20x24x12
Price, as described	.....	.....	.....
P r i c e,			
E n a m e l e d			
A l l			
O v e r	.....	.....	.....

Enameled Inside Iron Roll Rim Slop Sink with 14-inch Integral Back on Enameled Inside P Trap Standard with Cleanout, Nickel-plated Fuller Bibbs.

Size, inches	16x20x12	18x22x12	20x24x12
Price, as described	.....	.....	.....
P r i c e,			
E n a m e l e d			
A l l			
O v e r	.....	.....	.....



J-2594



## ENAMELED IRON SLOP SINKS AND TRAPS

### ENAMELED IRON FLAT RIM SLOP SINKS



J-2596

Enameled Iron Flat Rim Slop Sink, with Nickel-plated Open Brass Strainer with Iron Coupling and Collar for Lead Pipe Connection.

Size.....inches      16x16x10      16x20x12      18x22x12      20x24x12

Price, Enameled Inside.....

16x16x10-inch has center outlet; balance, end outlet. 20x24x12-inch can also be furnished with center outlet.

Strainer can be furnished with coupling threaded for 1¼, 1½ or 2-inch iron pipe.

#### S TRAP STANDARDS WITH CLEANOUT PLUG FOR SLOP SINKS



J-2598

Enameled Iron Open Pattern S Trap Standard with Cleanout Plug and Outlet for Lead Pipe Connection.

Price, Enameled Inside.....

" " All Over.....

Also furnished with hub vent or nickel-plated vent to wall.

#### P TRAP STANDARDS WITH CLEANOUT PLUG FOR SLOP SINKS



J-2600

Enameled Iron Adjustable P Trap Standard with Cleanout Plug and 2 or 3-inch Female Iron Pipe Outlet.

Price, Enameled Inside.....

" " All Over.....

## LAUNDRY TRAY AND SINK FITTINGS

### ADJUSTABLE LAUNDRY TRAY FRAMES



J-2698

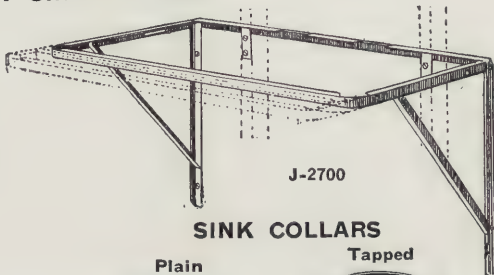
This frame is made of 1-inch angle steel, is well braced and is strong enough to carry four times more weight than the old-fashioned cast iron legs. Made in the regulation height of 18 inches and is adjustable in width.

No.	Length Inches	For Tray	Price Each
2	42	2-part	....
3	64	3 "	....

### SANITARY SINK FRAMES

Made of 3/4-inch angle iron. Fastens to the wall by clips, which are screwed to studding. Has an adjustment of 3 inches in width.

No.	Length Inches	Holds Sinks, Inches	Price Each
1	24	16x24 or 18x24	....
2	30	16x30 " 18x30	....
3	30	18x30 " 20x30	....
4	36	18x36 " 20x36	....
5	42	18x42 " 20x42	....
6	48	18x48 " 20x48	....



J-2700

### SINK COLLARS

Plain

Tapped



J-2706



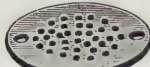
J-2708

Price, Plain, 1 1/4 or 1 1/2-inch L. P. .... per doz. ....  
" Tapped, 1 1/4, 1 1/2 or 2-inch .... " ....

### SINK STRAINERS

Open Strainer

Plug Strainer



J-2710



J-2712

	PRICE, PER DOZEN		
	Pol. Painted Enam.	N. P. Brass	N. P. Brass

Open Strainers .....  
Plug " .....  
Extra Bolts and Nuts .....  
BRASS SINK BOLTS .....  
Long Short



J-2714

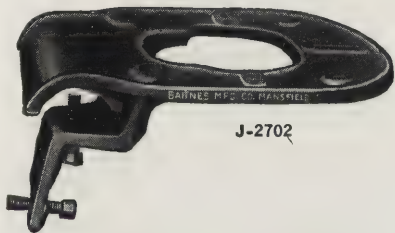


J-2716

Price, Long, with 2 Iron Nuts ..... per doz. ....  
" Short, " 1 " Nut ..... " ....  
Add for Nickel-plated Heads " ....

### No. 930 PUMP BRACKETS

PATENTED



J-2702

Price, Painted or Bronzed .... each ....  
" White Enamelled ..... " ....

### PLAIN SINK BRACKETS



J-2704

No.	Price, Each
Width.....in.	1 2
Height....."	14 16
Plain.....	16 18
Galv.....	.. ..
Enam.....	.. ..

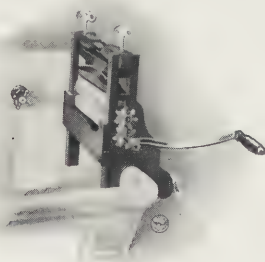
## PORCELAIN LAUNDRY TRAYS



J-2754

Porcelain Two-part Laundry Tray, Porcelain Legs with Iron Straps to Wall, Nickel-plated Compression Tray Bibbs with Four ball China Indexed Handles, Rough Brass Two-part Waste Fitting with Nickel-plated Flanges and Plugs, Nickel-plated Brass Ball Chains and 1½-inch Nickel-plated P Trap.

Size Over All.....	inches	46½x25
Height of Rim from Floor.....	"	36
Price as described.....		



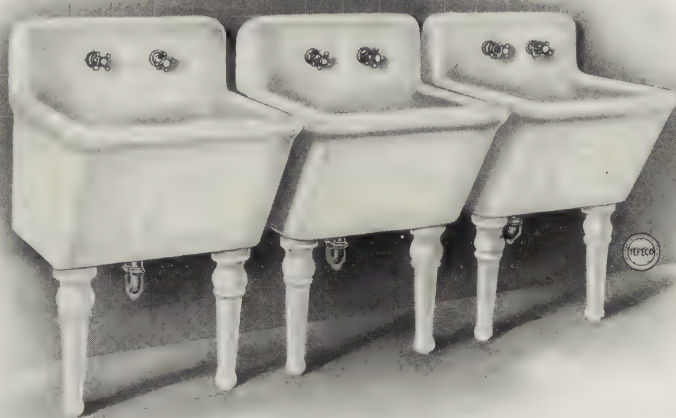
J-2756

This illustration shows combination wringer which may be attached to roll or partition of porcelain tubs. The same wringer may be attached to wringer base between individual tubs.

Prices for porcelain laundry trays are quoted for kiln run ware. Extra charge will be made for special selections.

## PORCELAIN LAUNDRY TRAYS

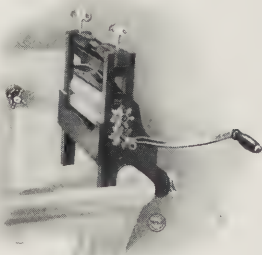
WITH INTEGRAL BACK



J-2758

Porcelain Laundry Trays with Integral Back, Porcelain Legs with Iron Straps to Wall, fitted with Nickel-plated Compression Tray Bibbs with China Indexed Handles, Nickel-plated Ball Chains, Plugs and Couplings, Nickel-plated P Traps.

	Back, 9 inches	Height of Rim to Floor, 36 inches		
Size .....		.....inches	26x26	26x30
Price, as described, Set of Three.....				
“ Tray Only with Legs and Wall Supports.....		.....each		



J-2760

Combination wringer which may be attached to roll or partition of porcelain tubs. The same wringer may be attached to wringer base between individual tubs.

Prices on porcelain laundry trays are for kiln-run ware. An extra charge is made for special selection.



## ENAMELED IRON LAUNDRY TRAY AND SINK COMBINATIONS



J-2762

Enameled Iron One Piece Roll Rim Right Hand Sink and Laundry Tray. Combination with Integral Back and Hinged Ash Combination Drain Board and Tray Cover. Sink on Concealed Hanger, fitted with Nickel-plated Brass Strainer, and  $\frac{5}{8}$ -inch Compression Bibbs with China Index Handles. Laundry Tray on Painted Iron Adjustable Standard, fitted with Nickel-plated Brass Soap Dish, Nickel-plated Waste Plug with Rubber Stopper and  $\frac{5}{8}$ -inch Compression Tray Bibbs, Combination fitted with  $1\frac{1}{2}$ -inch Nickel-plated Continuous Waste and  $1\frac{1}{2}$ -inch P. Trap.

Combination can also be furnished with Left Hand Sink.

Length Over All, 50 Inches	Height of Back, 8 Inches
Width Outside, $23\frac{1}{2}$ Inches	Depth Inside, Sink, 6 Inches
Width Inside, $19\frac{1}{4}$ Inches	Depth Inside, Tray, $13\frac{3}{4}$ Inches
Length Inside, Sink, $21\frac{3}{4}$ inches	Length Inside, Tray, $21\frac{3}{4}$ Inches
Height, Floor to Top of Rim, Adjustable from $32\frac{1}{4}$ to $34\frac{1}{2}$ Inches	

Price, as described.....	.....
“ with Soap Cup and Waste Plug only.....	.....

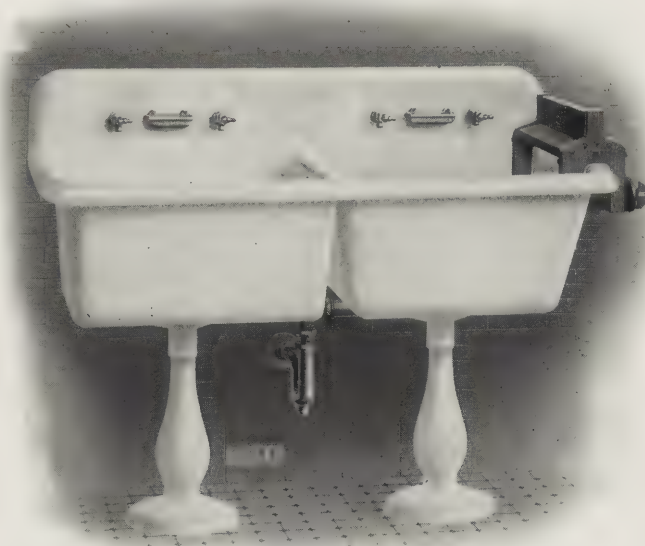
Specify when ordering if wanted with:

Integral Patent Overflow on Tray.

Painted or Enameled Adjustable Leg under center of sink.

## ENAMELED IRON LAUNDRY TRAYS

ROLL RIM—ONE PIECE



J-2764

Enameled One Piece Roll Rim Double Laundry Tray on Painted Adjustable Standards, fitted with Wooden Wringer Holder, Nickel-plated Brass Soap Dishes, Compression Bibbs, 1½-inch Special Double Waste Connection and Strainers with Rubber Stoppers, and 1½-inch P Trap.

Length Over Rim, Double Tray, 52¼ inches.	Front to Back, Inside, 21¼ inches.
Width Over Rim, 26⅝ inches.	Depth Inside, 14¼ inches.
Length Inside, Each Tray, 23 inches.	Height of Back, 8 inches.

Floor to Top of Rim Adjustable from 34 to 35¾ inches.

Price, as described. ....

“ with Soap Dishes and 1½-inch Strainers, Only. ....

If wanted with integral patent overflow or drilled for overflow, specify when ordering.

## ENAMELED IRON LAUNDRY TRAYS

## ROLL RIM



J-2766

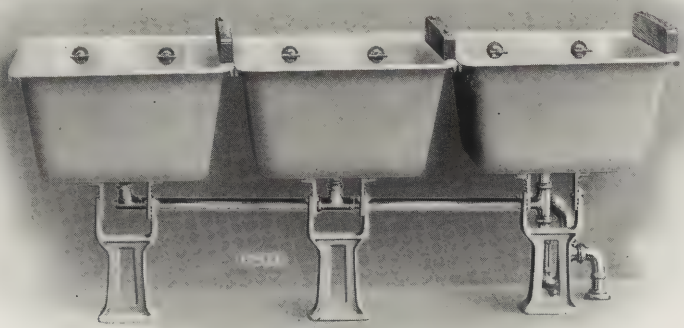
Enameled Iron Roll Rim Laundry Trays with Integral Backs, Adjustable Pedestals, Nickel-plated Soap Dishes, Wood Wringer Holder, Compression Wash Tray Bibbs, 1½-inch Continuous Waste, 1½-inch Waste Plugs and 1½-inch P Trap.

Front to Back, Inside, 22¼ inches.	Length Inside, 22¾ inches.
Front to Back, Over Rim, 26¾ inches.	Length Over Rim, 27½ inches.
Depth Inside, 14¼ inches	Back, 14 inches.
Height, Floor to Top of Rim, Adjustable from 34 to 35¾ inches.	

	One- Section	Two- Section	Three- Section
Price, as described, Enameled Inside.....	.....	.....	.....
" Less Bibbs, Waste and Trap.....	.....	.....	.....
If Enameled All Over, add.....	.....	.....	.....
Add for Ball Bearing Wringer.....	.....	.....	.....

# ENAMELED IRON LAUNDRY TRAYS

## FLAT RIM



J-2768

Enameled Iron Flat Rim Laundry Trays on Painted Iron Adjustable Standards, with Wood Wringer Holders, N. P. Compression Stub Pattern Bibbs, 1½-inch Waste Plugs and Couplings, 1½-inch Continuous Waste and S Trap with Vent.

Length Over Rim 24¼ inches	Width Over Rim 23¼ inches
Length Inside 21¼ inches	Width Inside 19½ inches
Depth Inside 13½ inches	Length Over All (Three Trays) 72¾ inches

The height of these trays can be adjusted from 29¼ to 34 inches from floor.

	One-section	Two section	Three-section
Price, as described .....	.....	.....	.....
“ less Bibbs, Waste and Trap.....	.....	.....	.....
Specify when ordering if wanted with:			
Integral Patent Overflow			
Drilled for Overflow			
Round Adjustable Iron Standards.			



## SOAPSTONE LAUNDRY TRAYS



J-2770

Soapstone Laundry Tray with 6-inch High Back, Polished Brass Plugs and Compression Wash Tray Faucets, Black Steel Frame Supports, Galvanized Soap Cup.

Width Outside 24 Inches Depth Outside, 16 Inches Height of Back 6 Inches

### ONE-SECTION

Length.....	inches	24	30	36
Price, as described.....		...	...	...

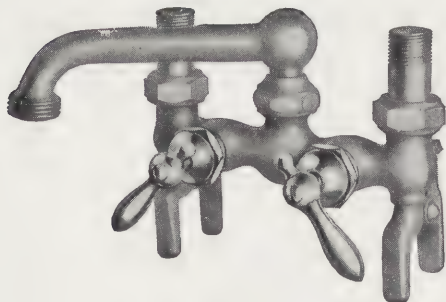
### TWO-SECTION

Length.....	inches	48	54	60
Price, as described.....		...	...	...

### THREE-SECTION

Length.....	inches	72	78	84
Price, as described.....		...	...	...

Above Tubs can be Furnished without Back or with Higher Back than the One Shown.



J-2772

Combination Hot and Cold Swinging Laundry Tub Supply.

Price.....each ....

J-2772

## CEMENT LAUNDRY TRAYS



**J-2774**

Cement Laundry Tray with 6-inch Back, Plugs, Polished Brass Compression Faucets, One Cold Faucet with Hose End, Black Steel Frame Support.

Width Outside, 24 Inches. Depth Outside, 16 Inches. Height of Back, 6 Inches.

### TWO-SECTION

Length.....	inches	48	54	60
Price as described.....		....	....	....

### THREE-SECTION

Length.....	inches	72	80
Price, as described.....		....	....

Above tubs can be furnished without back.



**J-2776**

**J-2776**

Combination hot and cold swinging laundry tub supply.

Price.....each ....

## LAUNDRY TRAY FITTINGS

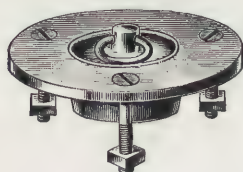
## CONTINUOUS WASTES



J-2778

1½-inch Nickel-plated Rough Brass Continuous Waste.	
Price, for Two-part Tray.....	each .....
“ “ Three “ “.....	“ .....

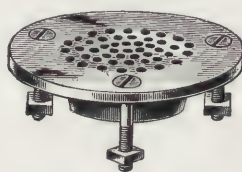
## LAUNDRY TRAY PLUGS WITH BRASS BOLTS



J-2780

1½-inch Nickel-plated Brass Laundry  
Tray Plug with Bolts.  
Price, Finished.....each ....

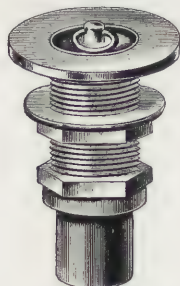
## SINK STRAINERS WITH BOLTS



J-2784

4-inch Brass Sink Strainers with  
Bolts.  
Price, Finished.....each .....  
" Nickel-plated..... " .....

WITH COUPLING



4-2782

1½-inch Brass Laundry Tray Plug	
with Coupling.	
Price, Finished.....each	....
“ Nickel-plated..... “	....

### WITH COUPLING



J-2786

Brass Sink Strainer with Collar,	
Coupling and Bolts.	
Price, Finished.....	each .....
“ Nickel-plated.....	“ .....

## GALVANIZED RANGE BOILERS

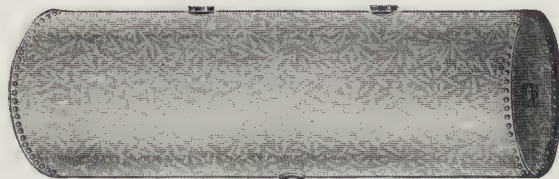
### STANDARD AND EXTRA HEAVY

Vertical



J-2844

Horizontal



J-2846

### HORIZONTAL AND VERTICAL

Working Pressure Standard, up to 85 Pounds

Extra Heavy, up to 150 Pounds

Approx. Capacity Gallons	Diam. Inside of Shell Inches	Length of Shell Feet	Price, Each Standard Extra Heavy
18	12	3	14.50
24	12	4	15.75
30	12	5	19.00
32	14	4	21.00
40	14	5	24.00
42	16	4	26.00
52	16	5	31.00
68	18	5	38.00
82	20	5	45.50
100	22	5	63.50
120	24	5	72.50
144	24	6	103.00
168	24	7	120.00
192	24	8	132.00

Vertical boilers are regularly tapped with four 1-inch openings and horizontal boilers with five 1-inch openings. For all openings in excess of these, an extra charge will be made as follows:

Size.....inches	1	1¼	1½	2	2½	3	4
Price, net.....each	.25	.25	.25	.50	1.00	1.50	2.00

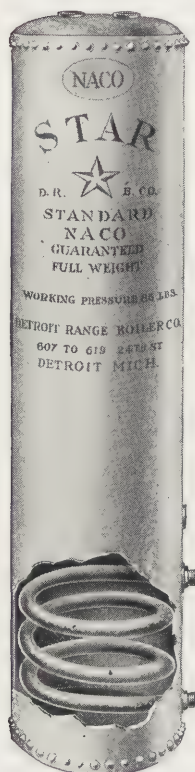
Any special tappings made at extra charge. Unless otherwise specified on orders, we will ship standard weight boilers.



## GALVANIZED RANGE BOILERS

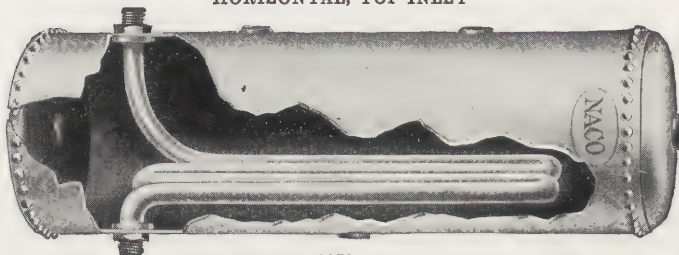
WITH ONE INCH GALVANIZED STEAM COIL

VERTICAL



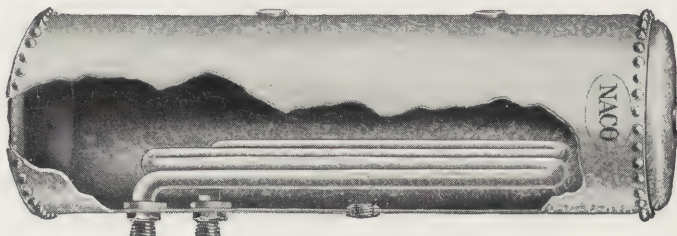
J-2848

HORIZONTAL, TOP INLET



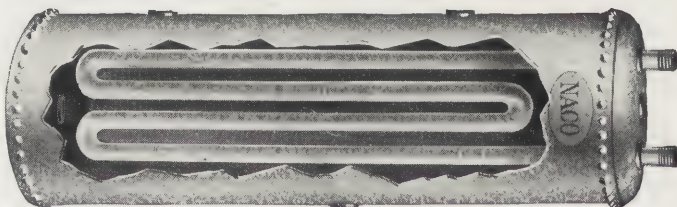
J-2850

HORIZONTAL, BOTTOM INLET



J-2852

HORIZONTAL, END INLET



J-2854

### ONE INCH COILS FOR RANGE BOILERS

Diameter of Boiler.....inches	12	14	16	18	20	22	24
Price of Coil.....	10.50	12.00	16.00	18.00	21.00	25.00	30.00

NOTE.—To obtain the price of a boiler with coil, add the price of coil to the regular price of boiler of corresponding diameter.

## BOILER STANDS, HANGERS AND BRACKETS

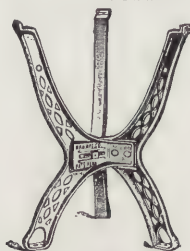
### BOILER STANDS

**REGULAR**  
21 INCHES HIGH



**J-2856**

**TRIPOD ADJUSTABLE**



**J-2858**

#### REGULAR

Ring.....inches	12	14	16	18	20	22	24
Price, Plain .....each	1.25	1.45	1.85	2.00	2.25	2.75	3.50
" Galvanized. "	2.50	2.70	3.25	3.80	4.50	5.00	6.50

Extension pieces to raise regular stands to 30 inches, add to list: Plain, 50 cents; galvanized, 75 cents.

#### HAWKS UNIVERSAL



**J-2860**

#### TRIPOD ADJUSTABLE

Number .....	1	2	3
For Boilers .....inches	12, 14	16, 18	20, 22, 24
Price, Plain.....each	1.25	2.00	2.75
" Galvanized ..... "	2.00	3.00	4.00

#### HAWKS UNIVERSAL

This stand will fit any size or make of boiler. Simply screw it into the bottom of the boiler and turn the locknut plate up against the bottom of the boiler. It is neat and strong; will support any boiler from 6 to 100 gallons. Is adjustable to any height by use of 1¼-inch pipe cut to length desired.

All parts coming in contact with water are galvanized. Each stand is packed complete in a carton.

Price.....each 1.40

**WROUGHT IRON  
HANGER**



**J-2862**

### WROUGHT IRON HANGERS AND BRACKETS

#### For Horizontal Boilers

Size.....inches	12	14	16	18
Price, Hangers. per pair	6.50	6.80	7.00	7.50
" Brackets "	11.00	11.50	12.50	13.50
Size.....inches	20	22	24	....
Price, Hangers. per pair	8.00	8.80	9.80	....
" Brackets "	19.00	20.00	28.00	....

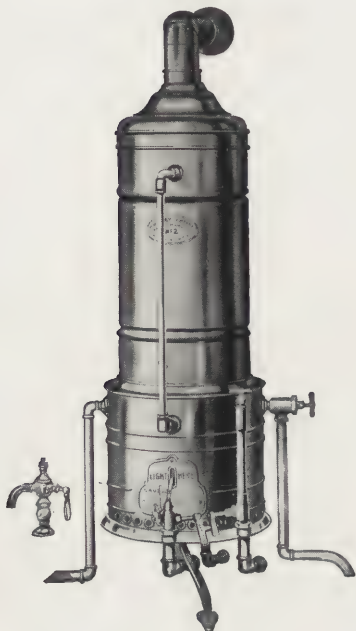
**WROUGHT IRON  
BRACKET**



**J-2864**

## HUMPHREY INSTANTANEOUS BATH WATER HEATERS

No. 2



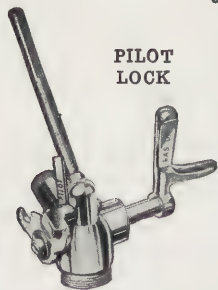
J-2866

Nos. 6 AND 8



J-2868

**PILOT  
LOCK**



A new and exclusive feature of these heaters is the improved pilot lock. This is a part of the gas valve and makes it impossible to turn on the gas to the main burner without first turning on gas to the pilot, making a gas explosion impossible. Any kind of gas except acetylene can be used.

No.	Diameter Inches	Height Inches	Gas Supply from Meter Inches	Gallons Heated per Min., 50° in Temperature	*Price Nickel- plated Each
2	12	36	$\frac{3}{4}$	$2\frac{1}{2}$	55.00
†6	12	30	$\frac{3}{4}$	3	40.00
†8	$10\frac{1}{4}$	30	$\frac{1}{2}$	$2\frac{1}{2}$	35.00
Shower	$14\frac{3}{4}$	31	$\frac{3}{4}$	2	50.00

\*Prices include gas and water valves and unions, safety pilot lock, one bent outlet spout, white porcelain enameled steel shelf and nickel-plated bracket, but no fittings.

†Nos. 6 and 8 are contact heaters; the heated gases come in direct contact with the heated water which is suitable for bath and kitchen use, but not for drinking. The No. 2 is entirely non-contact as is also the handy Humphrey shower bath heater.

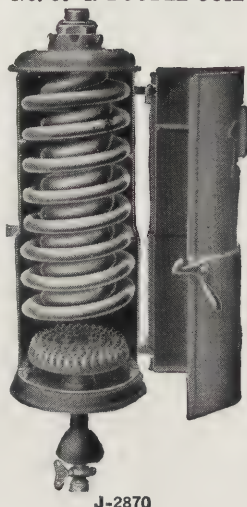
### VENTILATING PIPE AND FITTINGS

Price, $3\frac{1}{2}$ -inch Copper Vent Pipe, Nickel-plated.....	per foot	.90
" $3\frac{1}{2}$ " " Extension Thimbles, Nickel-plated.....	each	1.56
" $3\frac{1}{2}$ " " Adjustable Elbows " ".....	"	1.38
" $3\frac{1}{2}$ " " Vent Pipe Collars " ".....	"	.54
" Galvanized Iron Vent Hoods.....	"	2.40



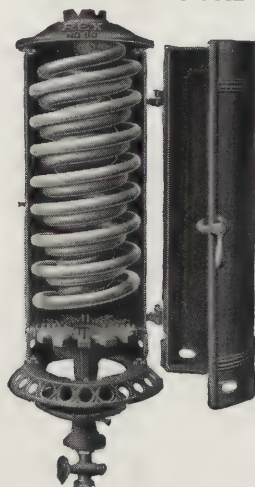
## REX WATER HEATERS MOST EFFICIENT AND ECONOMICAL

No. 50FR DOUBLE COIL



J-2870

No. 80 TRIPLE COIL



J-2872

### DOUBLE COIL

For service in dwellings, barber shops, in fact, wherever quick results are demanded at a minimum cost of operation. The most economic heater, owing to the large amount of heating surface with a unique type of winding. The type of heater to use where the fuel cost is high, where only manufactured gas is available, and a minimum cost of operation is essential.

Especially suited to range boilers from 30 to 50 gallons, or in connection with smaller tanks where quick service is required.

Price, No. 40FR, 16½ ft. Copper Coil; Diameter, 7 inches; Height, 22 inches; Weight, 38 pounds.....	each	18.00
" No. 50FR, 20½ ft. Copper Coil; Diameter, 7 inches; Height, 22 inches; Weight, 40 pounds.....	"	20.00
" No. 70FR, 25 ft. Copper Coil; Diameter, 7 inches; Height, 24 inches; Weight, 48 pounds.....	"	22.50
¾-inch water connection. ½-inch gas connection.		

### TRIPLE COIL

This heater can be connected up in manifold to a very large tank and owing to its high efficiency will give quicker results at the minimum of operating expense. Designed to meet that demand for large volume water work with quick results and low operating cost. For dwellings, small apartments, terraces, laundries, in fact, wherever the hot water supply is of great importance and where minimum in cost of operation is desired.

Price, No. 80, 35-foot Copper Coil; Diameter, 8½ inches; Height, 25 inches; Weight, 70 pounds.....	each	35.00
1-inch water connection. ½-inch gas connection.		

### SINGLE COIL

For small dwellings where limited volume of hot water is desired. Used in connection with range boilers from 10 to 30 gallons. Guaranteed for natural gas **only**.

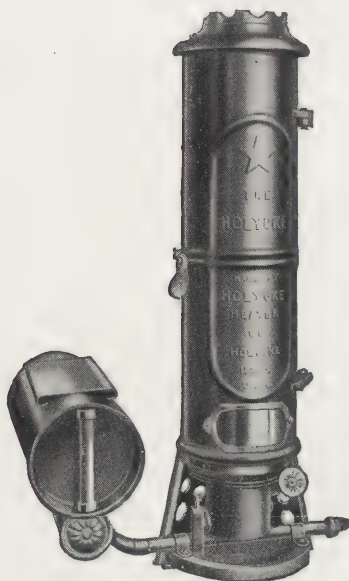
Price, No. 7, 13¾-foot Copper Coil; Diameter, 7 inches; Height, 20 inches; Weight, 37 pounds.....	each	18.00
¾-inch water connection. ½-inch gas connection.		



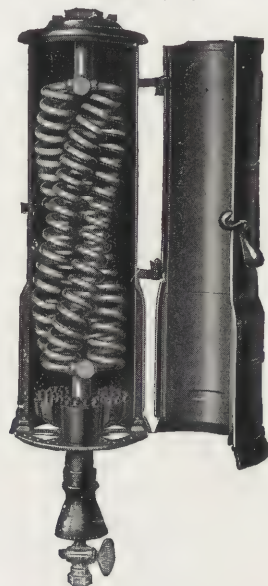
## HOLYOKE WATER HEATERS

FOR KEROSENE

FOR GAS



J-2874



J-2876

### KEROSENE

The Holyoke Kerosene Heater contains 32 feet of heavy copper coils and is so constructed that the hot gases strike the coils many times before reaching the vent pipe. It will produce hot water very rapidly and is very economical.

According to tests, 1 gallon of kerosene oil will last for about 12 hours of continuous burning.

The shell is of cast iron and made in three parts, front, back and cap.

The coils are very easily cleaned—simply open the door, and with a stiff brush, remove any particles which may have accumulated on the metal.

The heater can be attached to any size tank and can be used in connection with or without the coal range.

The burner can be removed from the shell by taking out screw at back and drawing the burner and plate toward you. It produces a circular blue flame of very intense heat.

Diameter, Shell .....	inches 6	Diameter, Base .....	inches 8
Space required for Base and Reservoir .....		"	12x17
Height .....		"	28½
Net Weight .....	pounds 40	Shipping Weight (Crated) .....	pounds 55
Price, for Kerosene .....			30.00

### GAS

The Holyoke Gas Heater also contains 32 feet of heavy copper coils, the ends of which are brazed into bronze metal manifolds. Every coil is tested to 250 pounds water pressure. The coil can be reversed, and bottom end used at top after a few years' wear, and in this way practically double its life. The coils are half-turned, thus are their own baffle, and in this way all the heat from the burner is used in heating water.

The lower part of the shell, around the heat zone, has an air jacket, or double wall, with air space between through which the secondary air is fed to the burner. This helps to heat the air before it strikes the fire, saves gas, and keeps the outside of the heater and kitchen cool, besides preventing the finish from burning off.

Height .....	inches 24½	Diameter .....	inches 8
Net Weight .....	pounds 41	Gross Weight .....	pounds 48
Price, for Gas .....			22.50

## KEWANEE GARBAGE BURNER AND WATER HEATER

### TYPE A



J-2878

The Type A burner is built on the same general principles as the Type D, being of the round type and of smaller capacity.

Soft coal of the cheapest kind can be used successfully to operate these burners and they require comparatively little attention to keep them going.

A few suggestions are offered herewith for obtaining the best results with these burners.

Locate the garbage burner as near to the chimney flue as possible. Smoke opening and chimney should be the same size as the smoke outlet in the garbage burner.

The garbage burner should be as close to the tank as possible.

The bottom of the tank should be as high as the top of the garbage burner, if possible.

Don't reduce the sizes of pipes connecting the tank and heater together. In all cases pipes of the same sizes as the openings we furnish in the apparatus should be used to insure perfect circulation.

We would suggest a manhole be placed in the storage tank. Sediment brought into the system from the street mains is bound to accumulate in the bottom of the tank.

The garbage burner should have an independent smoke opening in the chimney.  
Maximum working pressure 100 pounds per square inch.

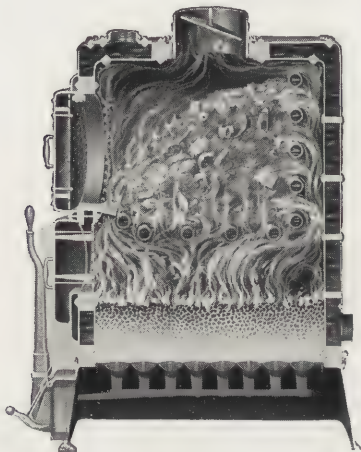
Number.....	30	31	32
Capacity, per hour, 50 Degree Raise.....gallons	290	300	400
" Garbage Chamber One Charge.....bushels	1	2	3
Height Over All.....inches	58	64	64
Diameter of Floor Space Required....."	22	25	30
Height to Bottom of Front Garbage Door....."	33	37	37
Dimensions of Garbage Door....."	7x8	7x8	7x8
" " Coal or Fire Doors....."	7x8	7x8	7x8
Diameter of Coal or Lower Grates....."	12	16	20
Size, Flow and Return Flanges, two each....."	1½	2	2
Diameter of Smoke Pipe....."	6	8	8
Approximate Shipping Weight.....pounds	600	800	1,000
Price, Complete with Tools..... each	190.00	230.00	260.00

Above ratings all based on raising temperature of water in storage tank 50 degrees in one hour.

KEWANEE

GARBAGE BURNER AND WATER HEATER

TYPE D



J-2880

The operation of this burner is simple. The fire is started on the lower or coal grates—the fire need not be a heavy one to accomplish the garbage destruction—fresh garbage is thrown into the upper chamber in quantities to completely fill it if necessary. The smoke and burning gases pass around through a by-pass to the smoke exit, destroying the odors of the smoldering refuse. The by-pass causes the damp, or even wet, garbage to be quickly dried, so that it burns readily. Each tube has a brass cleanout plug at the ends in the outer shell of the burner. The burner is built to stand a working pressure of 125 pounds per square inch.

Number.....	34	35	36	37	38	39	40
Capacity, per Hour, 50 Degrees Raise gallons..	500	600	800	1000	1200	1500	1800
Capacity, Garbage Chamber, One Charge....bu.	2	3	4	5	7	9	12
Height Over All...inches	56	56	56	56	56	56	56
Size of Floor Space Required.....inches	29x29	29x35	35x35	35x41	35x47	41x53	41x59
Height to Bottom of Garbage Door...inches	32	32	31	31	31	31	31
Size of Garbage Door “ “	14x16	14x16	16x16	16x16	16x16	16x16	16x16
“ “ Coal or Fire Door ..inches	14x10	14x10	16x10	16x10	16x10	16x10	16x10
Size of Lower or Coal Grates.....inches	18x18	18x24	24x24	24x30	24x36	30x42	30x48
Size, Flow and Return Flanges, One Each...in.	2	2	2½	2½	2½	3	3
Diam. of Smoke Pipe... “	9	9	10	10	10	12	12
Approximate Shipping Weight.....pounds	1600	1800	2100	2300	2500	3000	3300
Price, Complete with Tools.....each	460.00	490.00	560.00	610.00	660.00	780.00	870.00

## TABASCO TANK HEATERS

### ALL STEEL—SELF-FEED AND SURFACE BURNERS

For Maximum Working Pressure of 60 Pounds



J-2882



### ALL STEEL—SELF-FEED AND SURFACE BURNERS

No.	Heating Capacity per Hour Gallons	Size of Heater Inches	Total Height Inches	Size of Flow and Return Inches	Weight Pounds	PRICE, EACH	
						Magazine Feed	Surface Burner
17	130	17x30	52	2—2	400	130.00	125.00
18	150	17x36	57	2—2	420	135.00	130.00
21	200	21x30	52	2—2	520	160.00	150.00
22	250	21x36	59	2—2	550	165.00	155.00
25	300	25x36	59	2—2	780	195.00	185.00
26	350	25x42	65	2—2	810	200.00	190.00
27	400	25x48	71	2—2	840	205.00	195.00
30	500	30x42	65	2—2½	1100	250.00	235.00
31	600	30x48	75	2—2½	1150	260.00	245.00
32	700	30x54	81	2—2½	1240	270.00	255.00

Magazine feed heaters are always shipped, unless surface burners are specified in order. Provided with brass cleanout plugs.

Tabasco water heaters are built for heating water for homes, apartment buildings, barber shops, hotels, hospitals and the like. They are made for heating from 130 to 700 gallons of water every hour. The heating capacity is based on raising the water in the storage tank 50 degrees Fahrenheit in one hour.



## WILKS STEEL WATER HEATERS

SMALL SIZE  
NOT SELF-FEEDING



J-2884

WITH MAGAZINE  
SELF-FEEDING



J-2886

Standard Heaters tested to  
100 Pounds Pressure and Con-  
structed for Maximum Work-  
ing Pressure of 65 Pounds.  
Can furnish Extra Heavy Heat-  
ers for Greater Pressures.

Size Boiler Inches	Heating per Hour Gallons	Height Over All Inches	Size Openings Inches	Size Smoke Pipe Inches	Weight Pounds	PRICE, EACH			
						Without Fire Door	With Fire Door	Magazine Feed	Surface Burner
*10x18	40	32	1	4	100	52.00	.....	.....	.....
*12x24	65	43	1	5	160	64.00	80.00	.....	.....
*12x30	80	49	1	5	170	66.00	82.00	.....	.....
*14x30	100	49	1 1/4	5	200	76.00	94.00	.....	.....
*14x36	120	55	1 1/4	5	235	80.00	98.00	.....	.....
16x30	130	52	1 1/2	5	400	.....	.....	130.00	125.00
16x36	150	58	1 1/2	5	420	.....	.....	135.00	130.00
20x30	200	54	2	7	520	.....	.....	160.00	150.00
20x36	250	60	2	7	550	.....	.....	165.00	155.00
20x42	275	66	2	7	580	.....	.....	170.00	160.00
24x36	300	60	2	8	780	.....	.....	195.00	185.00
24x42	350	66	2	8	810	.....	.....	200.00	190.00
24x48	400	72	2	8	840	.....	.....	205.00	195.00
30x42	500	67	3	8	1100	.....	.....	250.00	235.00
30x48	600	73	3	8	1150	.....	.....	260.00	245.00
30x54	700	79	3	8	1240	.....	.....	270.00	255.00
36x42	900	68	3	9	1900	.....	.....	370.00	355.00
36x48	1000	74	3	9	2000	.....	.....	390.00	375.00
42x42	1200	69	3	9	2400	.....	.....	430.00	412.00
42x48	1400	75	3	9	2500	.....	.....	450.00	432.00

\*Not self-feeding.

## THE ILLINOIS HOT WATER HEATERS

CAST IRON

MAGAZINE FEED—FOR HARD COAL

FRONT VIEW, Nos. 5-6-7



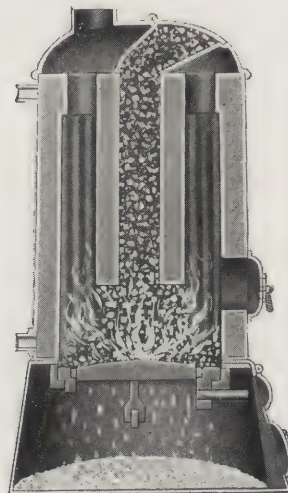
J-2888

FRONT VIEW, No. 15



J-2890

INTERNAL VIEW, No. 15



J-2892

Number .....	5	6	7	15
Height.....inches	37	43	49	45½
Outside Diameter of Boiler....."	13	15¾	18½	19½
Inside " " Magazine....."	5	6	7½	6
Diameter of Base....."	18½	21	23½	24
" " Grate....."	10	12	15	16
Diameter Smoke Pipe....."	5	6	6	6
Iron Pipe Connections....."	1¼	1½	2	1½
Heating Capacity, per hour.....gallons	100	180	300	400
Price.....each	37.00	65.00	89.00	139.00

Capacity named above is based on the assumption that sufficient storage tank capacity is provided for heater.

NOTE.—The magazines in Nos. 5, 6 and 7 are plain, without water chamber—the No. 15 being the only one made with water chamber.

## HOT WATER BOILERS AND LAUNDRY HEATERS

### CAST IRON

#### No. 09 IDEAL

No. 02 IDEAL



J-2894



J-2896

No. 10  
IDEAL ARCO



J-2898

Maximum allowable working pressure, 80 pounds per square inch.

No.	Style of Grate	Diam. of Grate Inches	Grate Area Square Feet	No. and Size Outlets and Inlets Inches	Nominal Ratings Gallons per Hour	Price Each
01	Slide	10	.59	1-1½	56	26.50
02	"	10	.54	1-1½	93	36.00
03	"	10	.59	1-1½	144	39.00
04	Rocking	12	.80	3-1½	192	65.00
05	"	12	.80	3-1½	210	76.00
06	"	15	1.23	3-2	384	84.00
07	"	15	1.23	3-2	426	102.00
08	"	18	1.92	3-2	600	110.00
09	"	18	1.92	3-2	660	134.00
Arco 10	"	10	.54	1-1½	81	33.00
" 12	"	12	.80	1-1½	148	37.00
" 15	"	15	1.23	1-1½	242	50.00

No firing tools are furnished with above boilers. The ratings are based on gallons per hour per 25-degree rise on 8-hour firing period, with hard coal.

### KING LAUNDRY HEATERS



J-2900

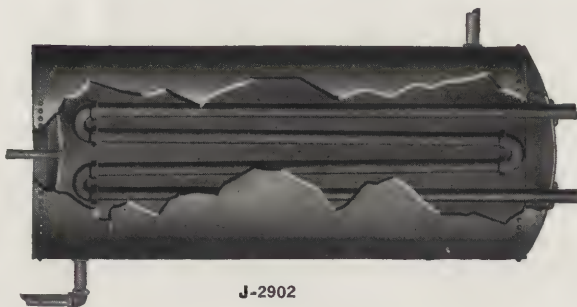
Number	2-Hole	4-Hole
Inside Diameter of Fire Pot .. inches	80	480
Outside " " " " " "	11¾	11¾
Height of Fire Pot .. " "	14½	14½
Size of Top .. " "	8	8
Height Over All .. " "	21x23	22x24
Size of Pipe Collar .. " "	24	24
Heating Capacity per Hour .. gallons	6	6
Weight .. pounds	100	100
Price, on Legs .. each	130	150
" " Base .. " "	25.65	29.65
	29.65	33.00

If wanted on base order by number:  
2-hole, 180; 4-hole, 580.

## HOT WATER STORAGE TANKS

HORIZONTAL OR VERTICAL

WITH OR WITHOUT STEAM COIL



J-2902

All standard storage tanks are tested to a hydrostatic pressure of 100 pounds to the square inch and are guaranteed for a working pressure of 65 pounds per square inch.

Diam. Inches	Length Feet	Approx. Capacity Gallons	Standard Openings Inches	Price Tank only	Number and Size of Coil Pipes	PRICE	
						Black Coil	Galv. Coil
20	4	66	1 1/2	94.00	4 pipes 1 in.	29.00	35.00
20	5	85	1 1/2	104.00	4 " 1 " "	30.50	38.50
24	4	100	1 1/2	109.00	4 " 1 1/4 " "	35.50	42.00
24	5	120	1 1/2	123.00	4 " 1 1/4 " "	37.00	45.00
24	6	140	1 1/2	134.00	4 " 1 1/4 " "	38.50	48.00
30	4	150	2	143.00	4 " 1 1/4 " "	35.50	42.00
30	5	180	2	158.00	4 " 1 1/4 " "	37.00	45.00
30	6	220	2	173.00	4 " 1 1/4 " "	38.50	48.00
30	7	250	2	196.00	4 " 1 1/4 " "	40.00	51.00
30	8	295	2	211.00	4 " 1 1/4 " "	41.50	54.00
36	6	315	2	206.00	4 " 1 1/2 " "	51.00	62.00
36	7	365	2	241.00	4 " 1 1/2 " "	54.00	66.00
36	8	420	2	256.00	4 " 1 1/2 " "	57.50	70.00
36	10	525	2	293.00	4 " 1 1/2 " "	64.00	78.00
42	6	430	2	276.00	4 " 1 1/2 " "	51.00	62.00
42	7	500	2	310.00	4 " 1 1/2 " "	54.00	66.00
42	8	575	2	333.00	4 " 1 1/2 " "	57.50	70.00
42	10	720	2	375.00	4 " 1 1/2 " "	64.00	78.00
42	12	865	2	415.00	4 " 1 1/2 " "	70.50	85.00
42	14	1000	2	468.00	4 " 1 1/2 " "	77.00	93.00

Furnished with or without coils as ordered.

### EXTRAS

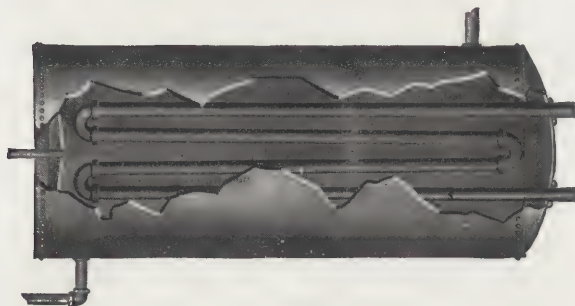
Price, Manhole in Head... each	30.00	Price, Flanged Openings, 3 -in., each	9.00
" " " Shell... "	45.00	" " " 3 1/2 " " "	9.00
" Handhole in Head... "	8.00	" " " 4 " " "	10.00
" " " Shell... "	8.00	" " " 5 " " "	15.00
" Flanged Openings, 2-in	8.00	" " " 6 " " "	18.00
" " " 2 1/2-in.	8.00		



## EXTRA HEAVY HOT WATER STORAGE TANKS

HORIZONTAL OR VERTICAL

WITH OR WITHOUT STEAM COIL



J-2904

All extra heavy storage tanks are tested to a hydrostatic pressure of 150 pounds to the square inch, and are guaranteed for a working pressure of 100 pounds to the square inch.

Diam. Inches	Length Feet	Approximate Capacity Gallons	Price Tank only Black	Number and Size of Coil Pipes	Price Black Coil	Price Galv. Coil
24	5	120	137.00	4 Pipes 1 1/4 In.	37.00	45.00
24	6	140	155.00	4 " 1 1/4 "	38.50	48.00
30	5	180	182.00	4 " 1 1/4 "	37.00	45.00
30	6	220	198.00	4 " 1 1/4 "	38.50	48.00
30	7	250	224.00	4 " 1 1/4 "	40.00	51.00
30	8	295	242.00	4 " 1 1/4 "	41.50	54.00
36	6	315	264.00	4 " 1 1/2 "	51.00	62.00
36	7	365	300.00	4 " 1 1/2 "	54.00	66.00
36	8	420	328.00	4 " 1 1/2 "	57.50	70.00
36	10	525	385.00	4 " 1 1/2 "	64.00	78.00
42	6	430	345.00	4 " 1 1/2 "	51.00	62.00
42	7	500	390.00	4 " 1 1/2 "	54.00	66.00
42	8	575	420.00	4 " 1 1/2 "	57.50	70.00
42	10	720	480.00	4 " 1 1/2 "	64.00	78.00
42	12	865	540.00	4 " 1 1/2 "	70.50	85.00
42	14	1000	614.00	4 " 1 1/2 "	77.00	93.00
48	8	750	510.00	4 " 1 1/2 "	57.50	70.00
48	10	940	580.00	4 " 1 1/2 "	64.00	78.00
48	12	1130	650.00	4 " 1 1/2 "	70.50	85.00
48	14	1300	715.00	4 " 1 1/2 "	77.00	93.00
48	16	1500	800.00	4 " 1 1/2 "	115.00	140.00
48	18	1700	870.00	4 " 1 1/2 "	128.00	154.00

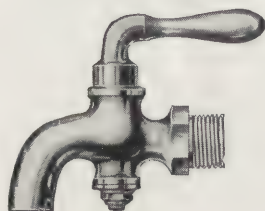
Furnished with or without coils as ordered.

### EXTRAS

Price, Manhole in Head.....each	30.00	Price, Flanged Openings, 3 1/2-in.	
" " " Shell....."	45.00	.....each	9.00
" Handhole in Head....."	8.00	Price, Flanged Openings, 4-in.	
" " " Shell....."	8.00	.....each	10.00
" Flanged, Openings, 2-inch....."	8.00	Price, Flanged Openings, 5-in.	
" " " 2 1/2-inch....."	8.00	.....each	15.00
Price, Flanged Openings, 3-in.		Price, Flanged Openings, 6-in.	
.....each	9.00	.....each	18.00

## GROUND KEY BIBBS

FOR IRON PIPE  
WITH HEXAGON



J-2964

### PLAIN BIBBS

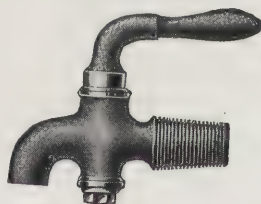
Size Inches	PRICE, PER DOZEN		
	Rough	Finished	Nickel-plated
3/8	20.40	25.20	30.00
1/2	21.00	25.80	30.60
3/4	29.40	35.40	41.40
1	52.80	64.80	76.80
1 1/4	89.40	107.40	125.40
1 1/2	149.40	179.40	209.40
2	258.00	300.00	342.00

### HOSE BIBBS

Size Inches	PRICE, PER DOZEN		
	Rough	Finished	Nickel-plated
1/2	24.00	28.80	33.60
3/4	32.40	38.40	44.40
1	60.00	72.00	84.00
1 1/4	100.20	118.20	136.20
1 1/2	164.40	194.40	224.40
2	280.20	322.20	364.20

## SCREWED FOR WOOD

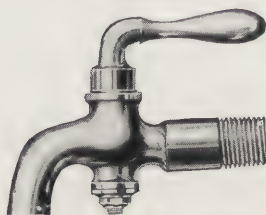
SHORT SHANK



J-2966

Size In.	PRICE, PER DOZEN			Extra for Hose End
	Rough	Finished	N. P.	
3/8	24.60	29.40	34.20	
1/2	25.80	30.60	35.40	3.00
3/4	34.80	40.80	46.80	3.00
1	63.60	75.60	87.60	7.20
1 1/4	109.20	127.20	145.20	10.80
1 1/2	179.40	209.40	239.40	15.00
2	306.00	348.00	390.00	22.20

S. O. T.



J-2968

### PLAIN BIBBS

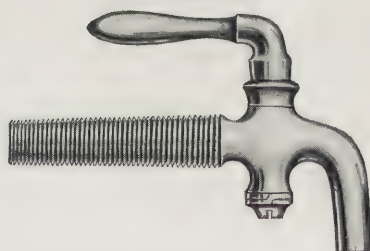
Size Inches	PRICE, PER DOZEN			Extra for Hexagon
	Rough	Finished	N. P.	
3/8	22.80	27.60	32.40	1.80
1/2	23.40	28.20	33.00	1.80
3/4	32.40	38.40	44.40	1.80
1	60.00	72.00	84.00	3.00
1 1/4	100.20	118.20	136.20	4.20
1 1/2	164.40	194.40	224.40	6.00
2	288.00	330.00	372.00	7.80

### HOSE BIBBS

Size Inches	PRICE, PER DOZEN			Extra for Hexagon
	Rough	Finished	N. P.	
1/2	26.40	31.20	36.00	1.80
3/4	35.40	41.40	47.40	1.80
1	67.20	79.20	91.20	3.00
1 1/4	111.00	129.00	147.00	4.20
1 1/2	179.40	209.40	239.40	6.00
2	310.20	352.20	394.20	7.80

## SCREWED FOR WOOD

LONG SHANK



J-2970

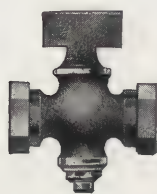
Size Inches	PRICE, PER DOZEN			Extra for Hose End
	Rough	Finished	N. P.	
3/8	28.20	33.00	37.80	
1/2	30.00	34.80	39.60	3.00
3/4	42.60	48.60	54.60	3.00
1	79.80	91.80	103.80	7.20

## STOP AND STOP AND WASTE COCKS

FLAT WAY—ROUGH BRASS

FOR IRON PIPE

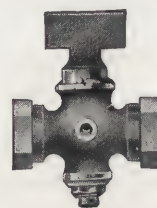
### T HANDLE STOPS



J-2972

Size Inches	Price per Dozen	Size Inches	Price per Dozen
$\frac{3}{8}$	20.40	1	52.80
$\frac{1}{2}$	21.00	$1\frac{1}{4}$	89.40
$\frac{5}{8}$	29.40	$1\frac{1}{2}$	149.40
$\frac{3}{4}$	36.00	2	258.00

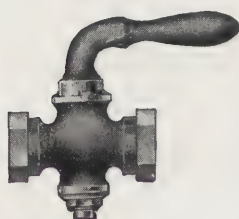
### T HANDLE STOP AND WASTES



J-2974

Size Inches	Price per Dozen	Size Inches	Price per Dozen
$\frac{3}{8}$	21.00	1	54.00
$\frac{1}{2}$	21.60	$1\frac{1}{4}$	91.20
$\frac{5}{8}$	30.00	$1\frac{1}{2}$	152.40
$\frac{3}{4}$	36.60	2	264.00

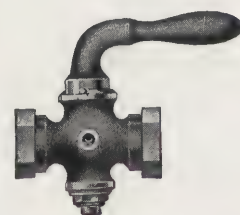
### LEVER HANDLE STOPS



J-2976

Size Inches	Price per Dozen	Size Inches	Price per Dozen
$\frac{3}{8}$	20.40	1	52.80
$\frac{1}{2}$	21.00	$1\frac{1}{4}$	89.40
$\frac{5}{8}$	29.40	$1\frac{1}{2}$	149.40
$\frac{3}{4}$	36.00	2	258.00

### LEVER HANDLE STOP AND WASTES



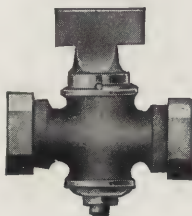
J-2978

Size Inches	Price per Dozen	Size Inches	Price per Dozen
$\frac{3}{8}$	21.00	1	54.00
$\frac{1}{2}$	21.60	$1\frac{1}{4}$	91.20
$\frac{5}{8}$	30.00	$1\frac{1}{2}$	152.40
$\frac{3}{4}$	36.60	2	264.00

## STOP AND STOP AND WASTE COCKS

ROUND WAY—ROUGH BRASS  
 FOR IRON PIPE

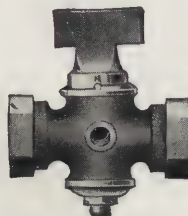
### T HANDLE STOPS



**J-2980**

Size Inches	Price per Dozen	Size Inches	Price per Dozen
1/2	26.40	1 1/4	120.60
5/8	36.00	1 1/2	197.40
3/4	46.20	2	342.00
1	73.80	...	.....

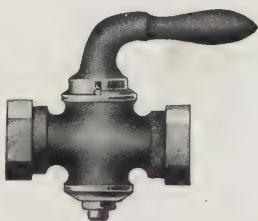
### T HANDLE STOP AND WASTES



**J-2982**

Size Inches	Price per Dozen	Size Inches	Price per Dozen
1/2	27.00	1 1/4	122.40
5/8	36.60	1 1/2	200.40
3/4	46.80	2	348.00
1	75.00	...	.....

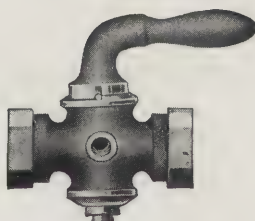
### LEVER HANDLE STOPS



**J-2984**

Size Inches	Price per Dozen	Size Inches	Price per Dozen
1/2	26.40	1 1/4	120.60
5/8	36.00	1 1/2	197.40
3/4	46.20	2	342.00
1	73.80	...	.....

### LEVER HANDLE STOP AND WASTES



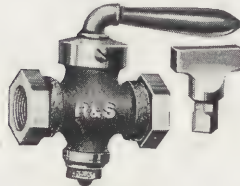
**J-2986**

Size Inches	Price per Dozen	Size Inches	Price per Dozen
1/2	27.00	1 1/4	122.40
5/8	36.60	1 1/2	200.40
3/4	46.80	2	348.00
1	75.00	...	.....



## SHIELD PATTERN STOP COCKS

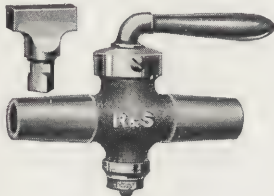
**FLAT WAY  
FOR IRON PIPE**



J-2988

Size Inches	PRICE, ROUGH, PER DOZEN	
	Stop	Stop and Waste
$\frac{1}{2}$	21.00	21.60
$\frac{5}{8}$	29.40	30.00
$\frac{3}{4}$	36.00	36.60
1	52.80	54.00
$1\frac{1}{4}$	89.40	91.20
$1\frac{1}{2}$	149.40	152.40
2	258.00	264.00

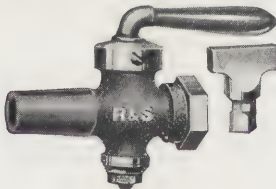
**FOR LEAD PIPE**



J-2990

Size Inches	PRICE, ROUGH, PER DOZEN	
	Stop	Stop and Waste
$\frac{1}{2}$	23.40	24.00
$\frac{5}{8}$	33.00	33.60
$\frac{3}{4}$	40.80	41.40
1	60.00	61.20

**FOR LEAD AND IRON PIPE**

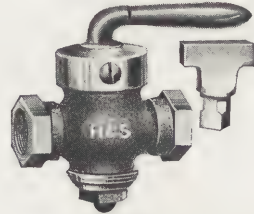


J-2992

Size Inches	PRICE, ROUGH, PER DOZEN	
	Stop	Stop and Waste
$\frac{1}{2}$	23.40	24.00
$\frac{5}{8}$	33.00	33.60
$\frac{3}{4}$	40.80	41.40
1	60.00	61.20

One tee or level handle furnished with each cock.

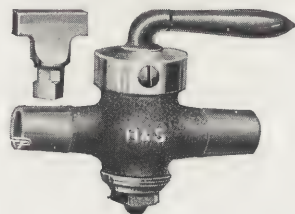
**ROUND WAY  
FOR IRON PIPE**



J-2994

Size Inches	PRICE, ROUGH, PER DOZEN	
	Stop	Stop and Waste
$\frac{1}{2}$	26.40	27.00
$\frac{5}{8}$	36.00	36.60
$\frac{3}{4}$	46.20	46.80
1	73.80	75.00
$1\frac{1}{4}$	120.60	122.40
$1\frac{1}{2}$	197.40	200.40
2	342.00	348.00

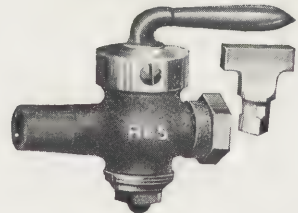
**FOR LEAD PIPE**



J-2996

Size Inches	PRICE, ROUGH, PER DOZEN	
	Stop	Stop and Waste
$\frac{1}{2}$	28.80	29.40
$\frac{5}{8}$	39.60	40.20
$\frac{3}{4}$	51.00	51.60
1	81.00	82.20

**FOR LEAD AND IRON PIPE**



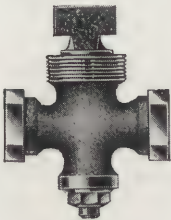
J-2998

Size Inches	PRICE, ROUGH, PER DOZEN	
	Stop	Stop and Waste
$\frac{1}{2}$	28.80	29.40
$\frac{5}{8}$	39.60	40.20
$\frac{3}{4}$	51.00	51.60
1	81.00	82.20

One tee or lever handle furnished with each cock.

MINNEAPOLIS CURB COCKS

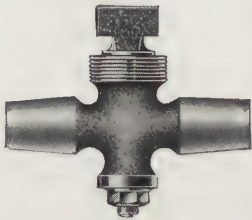
FOR IRON PIPE



J-3000

FLAT WAY—  
TEE HANDLE

FOR LEAD PIPE



J-3002

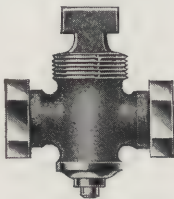
FOR IRON PIPE

Size.....inches	1½	5⁄8	¾	1	1½	1½	2
Price, Rough...per dozen	25.80	34.80	42.00	60.60	101.40	167.40	288.00

FOR LEAD OR LEAD AND IRON PIPE

Size.....inches	1½	5⁄8	¾	1	1¼	1½	2
Price, Rough...per dozen	28.20	38.40	46.80	67.80	112.20	185.40	318.00

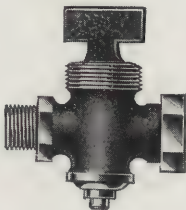
FOR IRON PIPE, FEMALE



J-3004

FOR IRON PIPE, MALE AND FEMALE

ROUND WAY



J-3006

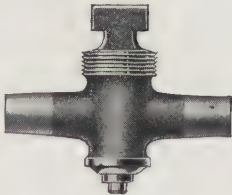
FOR IRON PIPE, FEMALE

Size.....inches	1¼	5⁄8	¾	1	1¼	1½	2
Price, Rough...per dozen	31.20	41.40	52.20	81.60	132.60	215.40	372.00

FOR IRON PIPE, MALE AND FEMALE

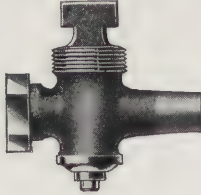
Size.....inches	1½	5⁄8	¾	1	1¼	1¼	2
Price, Rough...per dozen	31.80	42.00	52.80	82.80	134.40	218.40	378.00
Size.....inches	1½	5⁄8	¾	1	1¼	1½	2
Add for Waste...per dozen	.60	.60	.60	1.20	1.80	3.00	6.00

FOR LEAD PIPE



J-3008

FOR LEAD AND IRON PIPE



J-3010

FOR LEAD OR LEAD AND IRON PIPE

Size.....inches	1½	5⁄8	¾	1	1¼	1½	2
Price, Rough Stop.....per dozen	33.60	45.00	57.00	88.00	143.40	233.40	402.00
“ “ “ and Waste .. “	34.20	45.60	57.60	90.00	145.20	236.00	408.00

## INVERTED KEY CURB COCKS

### ROUND WAY—SHIELD PATTERN

FOR IRON PIPE



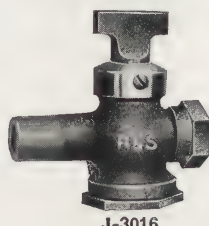
J-3012

FOR LEAD PIPE



J-3014

FOR LEAD AND IRON PIPE



J-3016

#### FOR IRON PIPE

Size .....	1/2	5/8	3/4	1	1 1/4	1 1/2	2
Price, Stop, Rough .....	35.40	45.60	58.80	88.80	144.60	233.40	396.00
"    "    and Waste, Rough .....	36.00	46.20	59.40	90.00	146.40	236.40	402.00

#### FOR LEAD OR LEAD AND IRON PIPE

Size .....	1/2	5/8	3/4	1	1 1/4	1 1/2	2
Price, Stop, Rough .....	37.80	49.20	63.60	96.00	155.40	251.40	426.00
"    "    and Waste, Rough .....	38.40	49.80	64.20	97.20	157.20	254.40	432.00

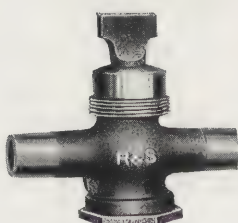
### MINNEAPOLIS ROUNDWAY—SHIELD PATTERN

FOR IRON PIPE



J-3018

FOR LEAD PIPE



J-3020

FOR LEAD AND IRON PIPE



J-3022

#### FOR IRON PIPE

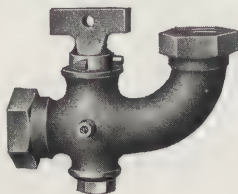
Size .....	1/2	5/8	3/4	1	1 1/4	1 1/2	2
Price, Stop, Rough .....	40.20	51.00	64.80	96.60	156.60	251.40	426.00
"    "    and Waste, Rough .....	40.80	51.60	65.40	97.80	158.40	254.40	432.00

#### FOR LEAD OR LEAD AND IRON PIPE

Size .....	1/2	5/8	3/4	1	1 1/4	1 1/2	2
Price, Stop, Rough .....	42.60	54.60	69.60	103.80	167.40	269.40	456.00
"    "    and Waste, Rough .....	43.20	55.20	70.20	105.00	169.20	272.40	462.00

## HYDRANT AND CORPORATION COCKS, ETC.

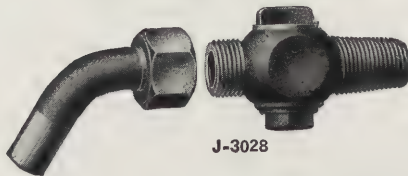
### HYDRANT COCKS FLAT WAY—SOLID HEAD



J-3024

Size	PRICE, PER DOZEN	
	Solid Head	Socket Head
1/2	25.80	25.80
5/8	36.60	36.60
3/4	45.00	45.00
1	64.80	64.80

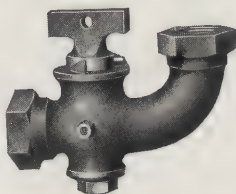
### CORPORATION COCKS SCREW PLUG, WITH EIGHTH BEND UNION COUPLING



J-3028

Size In.	PRICE, PER DOZEN	
	Rough	Rough with Hexagon on Main End
1/2	19.20	21.00
5/8	27.00	30.00
3/4	34.20	38.40
1	54.00	60.00
1 1/4	120.00	.....
1 1/2	192.00	.....
2	318.00	.....

### ROUND WAY—SOLID HEAD



J-3026

Size	PRICE, PER DOZEN	
	Solid Head	Socket Head
1/2	31.20	31.20
5/8	43.20	43.20
3/4	55.20	55.20
1	85.80	85.80

### CORPORATION COCKS SCREW PLUG, WITHOUT COUPLING



J-3030

Size In.	PRICE, PER DOZEN	
	Rough	Rough with Hexagon on Main End
1/2	17.40	19.20
5/8	23.40	26.40
3/4	30.00	34.20
1	48.00	54.00
1 1/4	111.00	.....
1 1/2	180.00	.....
2	300.00	.....

### SERVICE CONNECTIONS



J-3032

Size.....inches	1/2	5/8	3/4	1	1 1/4	1 1/2	2
Price with Corporation Cock, per dozen	63.00	75.00	87.00	129.00	234.00	372.00	582.00
" without Corporation Cock "	55.20	64.80	75.00	110.40	194.40	306.00	462.00

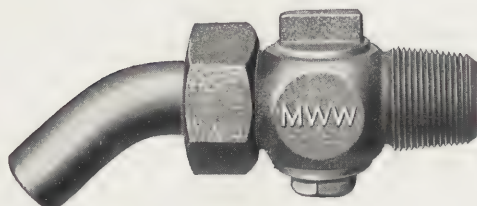
Piece of lead pipe 18 inches long with Corporation Cock, wiped on one end, brass soldering nipple on the other.



## EXTRA HEAVY RED METAL COCKS

### MILWAUKEE WATER WORKS PATTERN

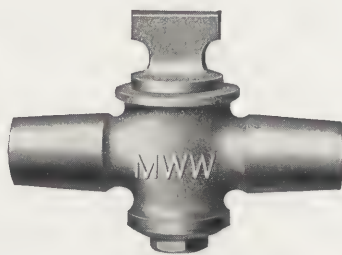
#### CORPORATION COCKS



J-3034

Size Inches	Weight Ounces	Price Each
$\frac{5}{8}$	27 $\frac{1}{4}$	....
$\frac{3}{4}$	38 $\frac{1}{4}$	....
1	53 $\frac{1}{2}$	....

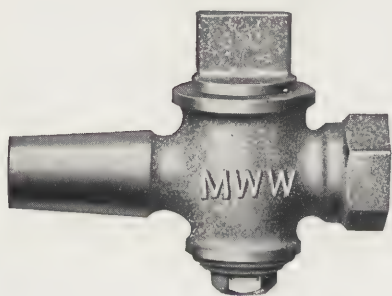
#### CURB COCKS



J-3038

Size Inches	Weight Ounces	Price Each
$\frac{3}{4}$	32	....
1	48 $\frac{5}{8}$	....
1 $\frac{1}{4}$	65 $\frac{3}{4}$	....

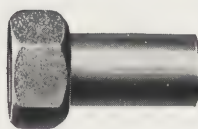
#### METER COCKS



J-3036

Size Inches	Weight Ounces	Price Each
$\frac{5}{8}$	21 $\frac{5}{8}$	....
$\frac{3}{4}$	31	....
1	48 $\frac{3}{8}$	....

#### METER COUPLINGS



J-3040

Size Inches	Weight Ounces	Price Each
$\frac{5}{8}$	6	....
$\frac{3}{4}$	9	....
1	13 $\frac{1}{2}$	....

The above are designed to conform to the requirements of the Milwaukee Water Works, and are made of red metal, extra heavy and well proportioned.

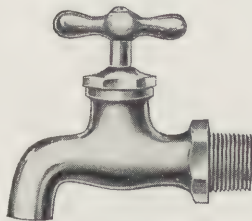
We are prepared to furnish any of these to any water company without the M W W shown on the side, if desired.

**They represent the highest type water works brass goods made.**

## COMPRESSION BIBBS

### PLAIN BIBBS

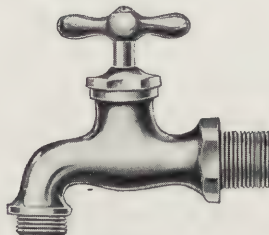
FOR IRON PIPE



J-3058

### HOSE BIBBS

FOR IRON PIPE



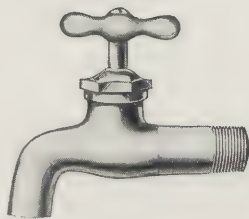
J-3062

Size Inches	PRICE, PER DOZEN		
	Rough	Finished	Nickel-plated
$\frac{3}{8}$	16.80	18.60	22.20
$\frac{1}{2}$	17.40	19.80	23.40
$\frac{3}{4}$	22.80	25.20	28.80
1	54.00	60.00	66.00
1 1/4	106.80	114.00	124.80

Size Inches	PRICE, PER DOZEN		
	Rough	Finished	Nickel-plated
$\frac{1}{2}$	20.40	22.80	26.40
$\frac{3}{4}$	25.80	28.20	31.80
1	61.20	67.20	73.20
1 1/4	117.60	124.80	135.60

### PLAIN BIBBS

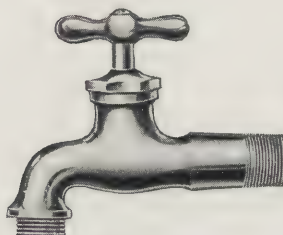
S. O. T.



J-3060

### HOSE BIBBS

S. O. T.



J-3064

Size Inches	PRICE, PER DOZEN			
	Rough	Fin.	N. P.	Add for Hexagon
$\frac{3}{8}$	19.20	21.00	24.60	1.80
$\frac{1}{2}$	19.80	22.20	25.80	1.80
$\frac{3}{4}$	25.80	28.20	31.80	1.80
1	61.20	67.20	73.20	3.00

Size Inches	PRICE, PER DOZEN			
	Rough	Fin.	N. P.	Add for Hexagon
$\frac{1}{2}$	22.80	25.20	28.80	1.80
$\frac{3}{4}$	28.80	31.20	34.80	1.80
1	68.40	74.40	80.40	3.00

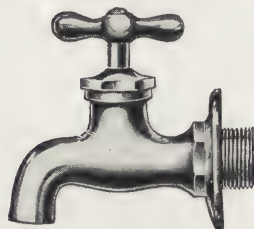
### EXTRA FOR STUFFING BOX

Size of Bibb.....inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	1 1/4
Add for Stuffing Box.....per dozen	4.20	4.80	5.40	10.80	18.60

## COMPRESSION BIBBS

### MALE SOLID FLANGE

#### PLAIN BIBBS



J-3066

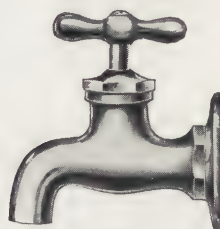
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	27.60	31.20
3/4	34.20	37.80

#### HOSE BIBBS

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	30.60	34.20
3/4	37.20	40.80

### FEMALE SOLID FLANGE

#### PLAIN BIBBS



J-3070

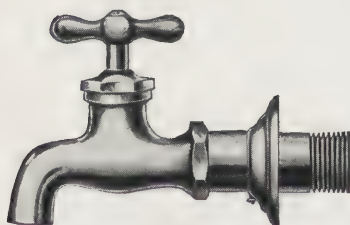
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	25.80	29.40
3/4	32.40	36.00

#### HOSE BIBBS

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	28.80	32.40
3/4	35.40	39.00

### SET SCREW FLANGE AND HEXAGON S. O. T.

#### PLAIN BIBBS

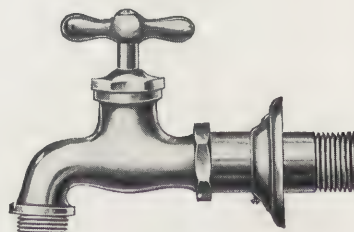


J-3068

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	29.40	33.00
3/4	36.00	39.60

### SET SCREW FLANGE AND HEXAGON S. O. T.

#### HOSE BIBBS



J-3072

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	32.40	36.00
3/4	39.00	42.60

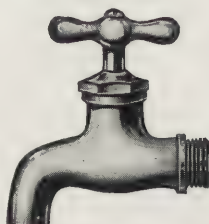
### EXTRAS

Size of Bibb.....inches	1/2	3/4
Add for Stuffing Box.....per dozen	4.80	5.40
"    Four-ball China Indexed Handle....."	9.00	8.40
"    Full China Cross Handles....."	15.00	14.40

## COMPRESSION BIBBS

FOR IRON PIPE

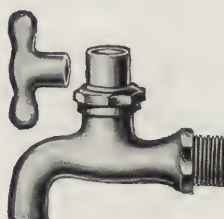
### PLAIN BIBBS WITHOUT SHANK



J-3074

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	21.60	25.20
3/4	27.60	31.20

### PLAIN BIBBS LOOSE KEY



J-3078

Size Inches	PRICE, PER DOZEN		
	Rough	Finished	Nickel-plated
3/8	21.60	23.40	27.00
1/2	22.80	25.20	28.80
3/4	28.80	31.20	34.80

### BIBBS WITH DETACHABLE SHANKS

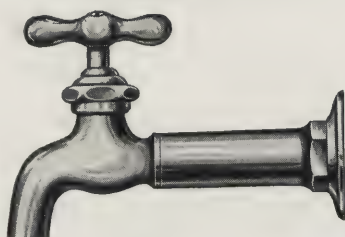
Not Illustrated

ADD TO PRICE OF REGULAR BIBBS

Size.....inches	1/2	3/4
Price.....per dozen	6.00	7.20

### EXTENSION PATTERN BIBBS

SOLID FLANGE, WITH HEXAGON  
FEMALE

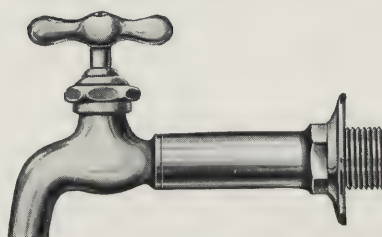


J-3076

Length from Center of Spout to Back of Flange Inches	Size Inches	PRICE, PER DOZEN	
		Finished	N. P.
Up to 6 1/2	1/2	40.20	43.80
" " 6 1/2	3/4	51.00	54.60
From 7 to 10	1/2	47.40	51.00
" " 7 " 10	3/4	58.20	61.80

### EXTENSION PATTERN BIBBS

SOLID FLANGE, WITH HEXAGON  
MALE



J-3080

Length from Center of Spout to Back of Flange Inches	Size Inches	PRICE, PER DOZEN	
		Finished	N. P.
Up to 6 1/2	1/2	42.00	45.60
" " 6 1/2	3/4	52.80	56.40
From 7 to 10	1/2	49.20	52.80
" " 7 " 10	3/4	60.00	63.60

### CHINA HANDLES EXTRA FOR HOSE END AND STUFFING BOX

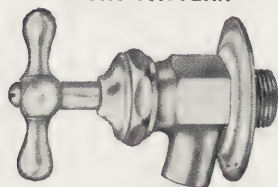
Size.....inches	1/2	3/4
Add for Hose End.....per dozen	3.00	3.00
" " Stuffing Box....."	4.80	5.40
" " China Button Four-arm Handle....."	9.00	8.40
" " " Tip....."	27.00	26.40
" " All China Four-arm Handle....."	15.00	14.40



## TRAY BIBBS AND DRAIN COCKS

### COMPRESSION WASH TRAY BIBBS

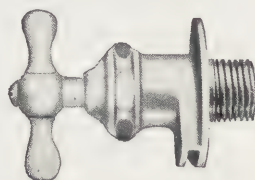
**SHORT PATTERN**



**J-3082**

Size.....	inches	$\frac{1}{2}$	
Price, Finished.....	per dozen	18.60	
" N. Plated.....	"	22.20	
Add for Fem. Thread....	"	1.80	
" " Hose End.....	"	3.00	

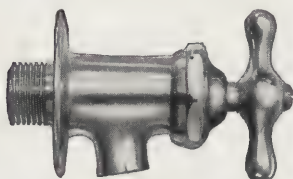
**STUB PATTERN**



**J-3084**

Size.....	inches	$\frac{1}{2}$	
Price, Finished.....	per dozen	18.60	
" N. Plated.....	"	22.20	
Add for Fem. Thread....	"	1.80	
" " Hose End.....	"	3.00	

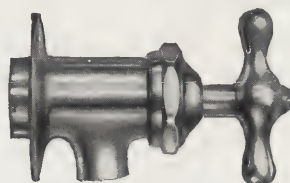
**SOLID FLANGE, MALE**



**J-3086**

Size.....	inches	$\frac{1}{2}$	$\frac{3}{4}$
Price, Finished per dozen		25.80	32.40
" N. Plated " "		29.40	36.00
Add for Hose End			
.....per dozen		3.00	3.00
Add for Stuffing Box			
.....per dozen		4.80	5.40

**SOLID FLANGE, FEMALE**

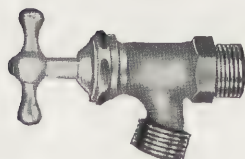


**J-3088**

Size.....	inches	$\frac{1}{2}$	$\frac{3}{4}$
Price, Finished per dozen		27.60	34.20
" N. Plated " "		31.20	37.80
Add for Hose End			
.....per dozen		3.00	3.00
Add for Stuffing Box			
.....per dozen		4.80	5.40

### COMPRESSION BOILER DRAIN COCKS

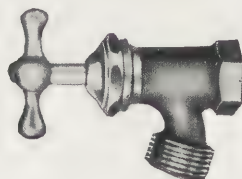
**MALE IRON PIPE  
TEE HANDLE**



**J-3090**

Size.....	inches	$\frac{1}{2}$	$\frac{3}{4}$
Price, Rough Nickel-plated.....	per dozen	17.40	22.80
Add for Loose Key			
.....per dozen		6.00	6.00

**FEMALE IRON PIPE  
TEE HANDLE**



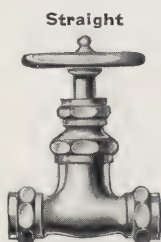
**J-3092**

Size.....	inches	$\frac{1}{2}$	$\frac{3}{4}$
Price, Rough Nickel-plated.....	per dozen	19.20	24.60
Add for Loose Key			
.....per dozen		6.00	6.00

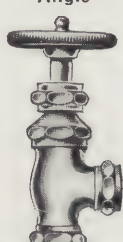
## COMPRESSION LAVATORY STOPS

### WHEEL HANDLE STOPS

WITH STUFFING BOX  
IRON PIPE THREAD BOTH ENDS



J-3094



J-3096

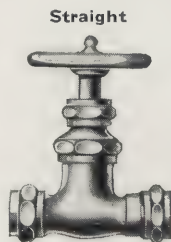
Wheel Handle finished one side only.

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
3/8	22.80	26.40
1/2	27.60	31.20
5/8	34.20	37.80
3/4	43.80	48.00

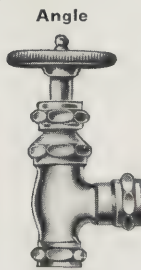
Cross Handle same price as above.

### WHEEL HANDLE STOPS WITH STUFFING BOX

SLIP JOINT ONE END



J-3102



J-3104

Wheel Handle finished one side only.

Size Inches	PRICE, PER DOZEN		Add for Slip Joint Both Ends
	Finished	Nickel-plated	
3/8-in. Body } 3/8-in. I. P. }	25.80	29.40	3.00
3/8-in. Body } 3/8-in. I. P. }	25.80	29.40	3.00
1/2	32.40	36.00	4.80
5/8	43.20	46.80	9.00
3/4	54.60	58.80	10.80

Cross Handle same price as above.

When ordering slip joint stops specify  
outside diameter of tubing.

### LOOSE KEY STOPS

WITH STUFFING BOX  
IRON PIPE THREAD BOTH ENDS



J-3098

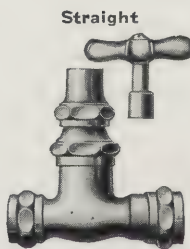


J-3100

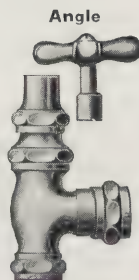
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
3/8	25.20	28.80
1/2	30.00	33.60
5/8	36.60	40.20
3/4	46.20	50.40

### LOOSE KEY STOPS WITH STUFFING BOX

SLIP JOINT ONE END



J-3106



J-3108

Size Inches	PRICE, PER DOZEN		Add for Slip Joint Both Ends
	Finished	Nickel-plated	
3/8	28.20	31.80	3.00
1/2	34.80	38.40	4.80
5/8	45.60	49.20	9.00
3/4	57.00	61.20	10.80

One key furnished with each loose key  
stop.

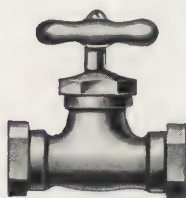
When ordering slip joint stops, specify  
outside diameter of tubing.

## COMPRESSION STOP COCKS

FOR IRON PIPE

### T HANDLE COMPRESSION STOPS

#### STRAIGHT PATTERN

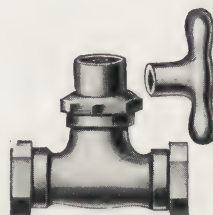


J-3110

Size Inches	PRICE, PER DOZEN			Add for Stuffing Box
	Rough	Finished	Nickel-plated	
$\frac{3}{8}$	14.40	16.20	19.80	4.20
$\frac{1}{2}$	17.40	19.80	23.40	4.80
$\frac{5}{8}$	22.80	25.20	28.80	5.40
$\frac{3}{4}$	30.60	33.00	37.20	6.00
1	54.00	60.00	66.00	10.80

### LOOSE KEY COMPRESSION STOPS

#### STRAIGHT PATTERN

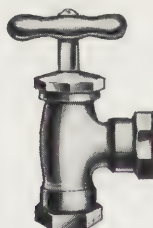


J-3114

Size Inches	PRICE, PER DOZEN			Add for Stuffing Box
	Rough	Finished	Nickel-plated	
$\frac{3}{8}$	19.20	21.00	24.60	4.20
$\frac{1}{2}$	22.80	25.20	28.80	4.80
$\frac{5}{8}$	28.80	31.20	34.80	5.40
$\frac{3}{4}$	37.80	40.20	44.40	6.00

### T HANDLE COMPRESSION STOPS

#### ANGLE PATTERN

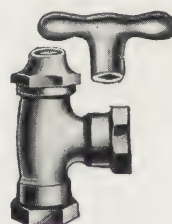


J-3112

Size Inches	PRICE, PER DOZEN			Add for Stuffing Box
	Rough	Finished	Nickel-plated	
$\frac{3}{8}$	14.40	16.20	19.80	4.20
$\frac{1}{2}$	17.40	19.80	23.40	4.80
$\frac{5}{8}$	22.80	25.20	28.80	5.40
$\frac{3}{4}$	30.60	33.00	37.20	6.00
1	54.00	60.00	66.00	10.80

### LOOSE KEY COMPRESSION STOPS

#### ANGLE PATTERN



J-3116

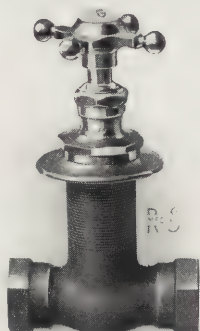
Size Inches	PRICE, PER DOZEN			Add for Stuffing Box
	Rough	Finished	Nickel-plated	
$\frac{3}{8}$	19.20	21.00	24.60	4.20
$\frac{1}{2}$	22.80	25.20	28.80	4.80
$\frac{5}{8}$	28.80	31.20	34.80	5.40
$\frac{3}{4}$	37.80	40.20	44.40	6.00

One key furnished with each cock.

## COMPRESSION STOP AND STOP AND WASTE COCKS

### COMPRESSION STOPS WITH EXTENDED BODY

Four-ball China Index Handle



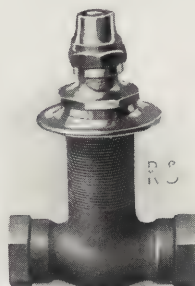
**J-3118**

Rough Body, Nickel-plated Flange and Four-ball China Index Handle.

Size Inches	Price per Doz.	Size Inches	Price per Doz.
$\frac{1}{2}$	48.00	1	112.20
$\frac{3}{4}$	66.60	..	.....

### COMPRESSION STOPS WITH EXTENDED BODY

With Loose Key



**J-3120**

Rough body, Nickel-plated flange and shield.

Size Inches	PRICE, PER DOZEN	
	With Stuffing box	Without Stuffing box
$\frac{1}{2}$	44.40	39.60
$\frac{3}{4}$	65.40	59.40
1	130.80	120.00

## COMPRESSION STOP AND WASTES

Reversible Pattern



**J-3122**

Size Inches	PRICE, PER DOZEN			Size Inches	PRICE, PER DOZEN		
	Rough	Finished	Nickel-plated		Rough	Finished	Nickel-plated
$\frac{1}{2}$	32.40	34.80	38.40	$1\frac{1}{4}$	156.00	163.20	174.00
$\frac{5}{8}$	38.40	40.80	44.40	$1\frac{1}{2}$	208.20	219.00	234.00
$\frac{3}{4}$	46.80	49.20	53.40	2	381.00	399.00	429.00
1	84.00	90.00	96.00	..	.....	.....	.....

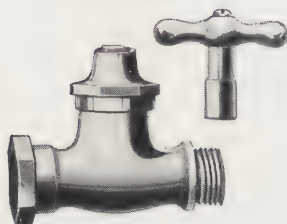


## COMPRESSION SILL COCKS

$\frac{1}{2}$  AND  $\frac{3}{4}$ -INCH

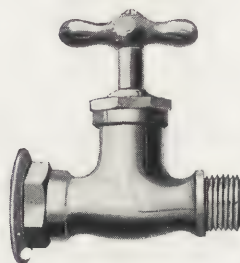
### STRAIGHT PATTERN

LOOSE KEY



J-3124

TEE HANDLE



J-3126

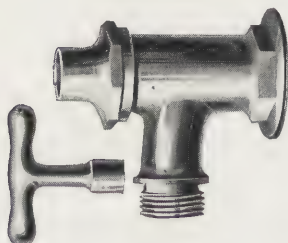
		J-3124			
		Tee Handle	Iron Wheel	Brass Wheel	Loose Key
Price,	Rough Nickel-plated.....per dozen	25.20	25.20	30.00	30.00
"	Finished....."	25.20	25.20	30.00	30.00
"	" Nickel-plated....."	29.40	29.40	34.20	34.20

J-3126

		J-3126			
		Tee Handle	Iron Wheel	Brass Wheel	Loose Key
Price,	Rough Nickel-plated.....per dozen	32.40	32.40	37.20	37.20
"	Finished....."	32.40	32.40	37.20	37.20
"	" Nickel-plated....."	36.60	36.60	41.40	41.46

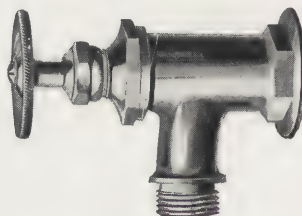
### ANGLE PATTERN

LOOSE KEY



J-3128

WHEEL HANDLE



J-3130

		J-3128			
		Tee Handle	Iron Wheel	Brass Wheel	Loose Key
Price,	Rough Nickel-plated.....per dozen	34.20	34.20	39.00	39.00
"	Finished....."	34.20	34.20	39.00	39.00
"	" Nickel-plated....."	38.40	38.40	43.20	43.20

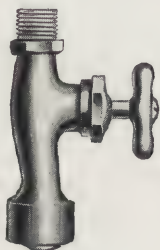
J-3130

		J-3130			
		Tee Handle	Iron Wheel	Brass Wheel	Loose Key
Price,	Rough.....per dozen	36.00	36.00	40.80	40.80
"	Finished....."	36.00	36.00	40.80	40.80
"	" Nickel-plated....."	40.20	40.20	45.00	45.00

## URINAL COCKS

### COMPRESSION URINAL COCKS

FOR IRON PIPE



J-3132

Size.....	inches	$\frac{1}{2}$
Price, Finished.....	per dozen	27.00
" Nickel-plated....	"	30.60

### COMPRESSION URINAL COCKS

S. O. T.



J-3136

Size.....	inches	$\frac{1}{2}$
Price, Finished.....	per dozen	27.00
" Nickel-plated....	"	30.60

### SELF-CLOSING URINAL COCKS

BOSTON S. O. T.

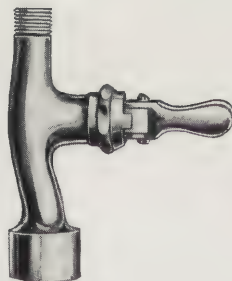


J-3134

Size.....	inches	$\frac{1}{2}$
Price, Finished.....	per dozen	37.80
" Nickel-plated....	"	43.80

### SELF-CLOSING URINAL COCKS

DOHERTY S. O. T.



J-3138

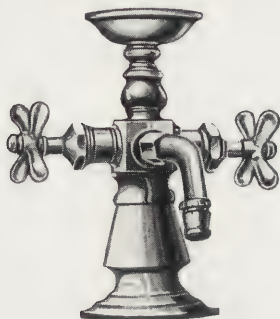
Size.....	inches	$\frac{1}{2}$
Price, Finished.....	per dozen	42.60
" Nickel-plated....	"	48.60

### BALL OR ROLLER BEARING PATTERN NOT ILLUSTRATED

Size.....	inches	$\frac{1}{2}$
Price, Finished.....	per dozen	47.40
" Nickel-plated....	"	53.40

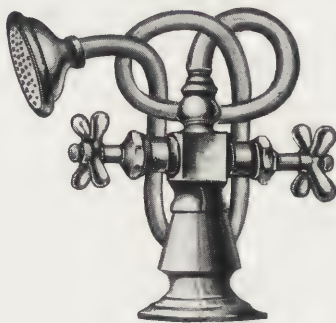
## COMPRESSION BASIN, SHAMPOO AND PANTRY COCKS

COMPRESSION  
DOUBLE BASIN COCK



J-3140

COMPRESSION  
SHAMPOO COCK



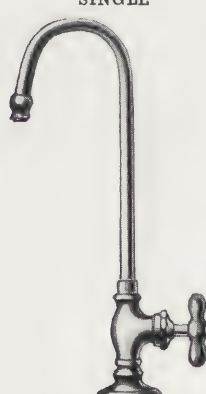
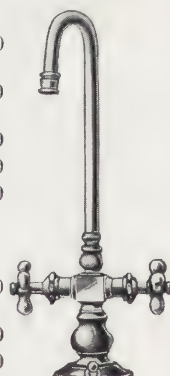
J-3142

### COMPRESSION BASIN AND SHAMPOO COCKS

Price, Double Basin Cocks, Nickel-plated.....each	13.75
Add for Stuffing Boxes.....each cock	.70
“ “ Oval Cup.....“ “	1.00
“ “ Four-ball China Indexed Handles.....“ “	1.60
Price, Shampoo Cocks.....each	13.25
Add for Stuffing Boxes.....each cock	.70
“ “ Four-ball China Indexed Handles.....“ “	1.60

Rubber tubing extra.

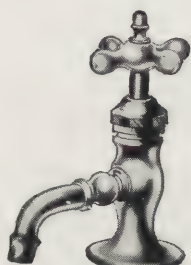
### COMPRESSION PANTRY COCKS

SINGLE	SINGLE		DOUBLE
	Number		
	1	2	
	Price, “T” Handle, Nickel-plated.....per dozen	45.00	54.00
	“ Cross Handle, Nickel-plated.....per dozen	48.00	57.00
	“ Four-ball China Indexed Handle.....per dozen	57.60	66.60
	Add for Hose End....“	3.60	3.60
	“ “ Stuffing Box “	4.20	4.80
DOUBLE			
	Price, Nickel-plated.....each	12.50	
	Add for Four-ball China Indexed Handle.....each cock	1.60	
	“ for Hose End.....“ “	.30	
	“ “ Stuffing Boxes.....“ “	.70	
			
			J-3146

J-3144

## COMPRESSION BASIN COCKS

### No. 0, CROSS HANDLE

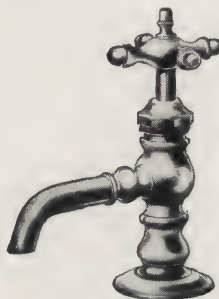


J-3148

Nickel-plated Compression Basin Cock  
with Nickel-plated Brass Handle.

Price, with Tee Handle..	per doz.	24.60
" " Cross " ..	"	27.60

### No. 1, CROSS HANDLE



J-3152

Nickel-plated Compression Basin Cock  
with Nickel-plated Brass Handle.

Price, with Tee Handle..	per doz.	26.40
" " Cross " ..	"	29.40

### No. 9

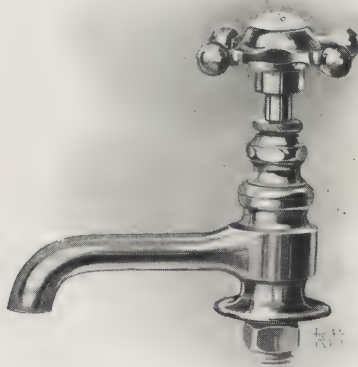
#### MIDGET



J-3150

Nickel-plated Midget Compression Basin  
Cock with 4-ball Handle and China  
Index.

Price.....	per dozen	30.00
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J-3154

Nickel-plated Compression Basin Cock  
with Stuffing Box and 4-ball Handle with  
China Index.

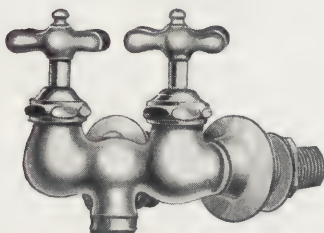
Price .....	per doz.	47.40
" with Solid China Handle "	"	53.40



## COMPRESSION BATH COCKS

3 $\frac{3}{8}$  Inches Center to Center

REGULAR PATTERN



J-3156

SMALL PATTERN



J-3158

LEAD PIPE COUPLING



J-3160

MALE  
I. P. COUPLING



J-3162

FEMALE  
I. P. COUPLING



J-3164

BALL OFFSET  
COUPLING



J-3166

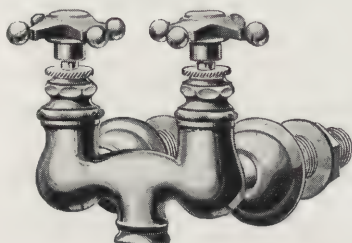
Price, Regular Pattern, with Locknuts only.....each	5.80
“ Small “ with Locknuts only..... “	5.00
Add for Lead Pipe Couplings, Rough.....per cock	.80
“ “ Male Iron Pipe Couplings, Rough..... “	.95
“ “ “ “ “ Finished..... “	1.40
“ “ Female Iron Pipe Couplings, Rough..... “	1.65
“ “ “ “ “ Finished..... “	2.25
“ “ Ball Offset Couplings, Finished..... “	2.25
“ “ China Button Four-arm Handles..... “	1.00
“ “ Stuffing Boxes..... “	.80
“ “ Jewel Cup or Chain Stay..... “	.80

## COMPRESSION BATH COCKS

HEAVY PATTERN, WITH STUFFING BOXES

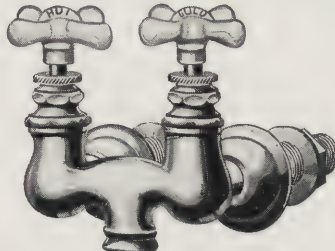
3 $\frac{3}{8}$  Inches Center to Center

CHINA BUTTON FOUR-ARM HANDLES



J-3168

ALL CHINA FOUR-ARM HANDLES



J-3170

L. P. COUPLING



J-3172

MALE  
I. P. COUPLING



J-3174

FEMALE  
I. P. COUPLING



J-3176

BALL OFFSET  
COUPLING



J-3178

Price, with China Button Four-arm Handles and Locknuts only.....	each	8.60
“ “ All China Four-arm Handles and Locknuts only.....	“	7.60
Add for Lead Pipe Couplings, Rough .....	per cock	.80
“ “ Male Iron Pipe Couplings, Rough.....	“	.95
“ “ “ “ Finished .....	“	1.40
“ “ Female “ “ Rough.....	“	1.65
“ “ “ “ Finished .....	“	2.25
“ “ Ball Offset Couplings, Finished .....	“	2.25
“ “ Jewel Cup or Chain Stay .....	“	.80

## COMPRESSION AND FULLER HANDLES

### COMPRESSION HANDLES

#### PLAIN CROSS



J-3180

Price, Nickel-plated . . . . per dozen . . . .

#### CHINA INDEX CROSS 2 7/8 INCHES



J-3182

Price, Nickel-plated . . . . per dozen . . . .

#### CHINA INDEX CROSS 2 3/4 INCHES



J-3184

Price, Nickel-plated . . . . per dozen . . . .

#### ALL CHINA CROSS



J-3186

Price, Small . . . . . per dozen . . . .  
 " Large . . . . . " . . . .

### COMPRESSION HANDLES

#### TEE



J-3188

Price, Nickel-plated . . . . per dozen . . . .

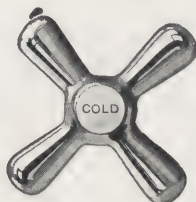
#### CHINA INDEX CROSS 2 1/2 INCHES



J-3190

Price, Nickel-plated . . . . per dozen . . . .

#### CHINA INDEX CROSS 3 1/8 INCHES



J-3192

Price, Nickel-plated . . . . per dozen . . . .

### FULLER HANDLES

#### Plain



J-3194

#### China Tip

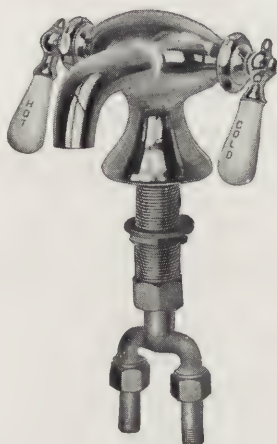


J-3196

Price, N. P. Plain . . . . per dozen . . . .  
 " N. P. China Tip . . . . " . . . .

## QUATURN QUICK COMPRESSION WORK

### DOUBLE BASIN COCKS



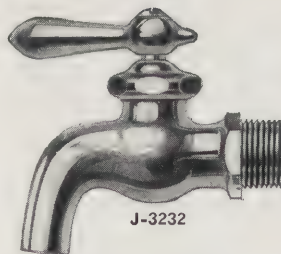
J-3230

Nickel-plated Quaturn Double Basin Cock with China Handles.

Price..... each **13.00**

### NICKEL-PLATED SINK BIBBS

WITH SHOULDER FOR IRON PIPE

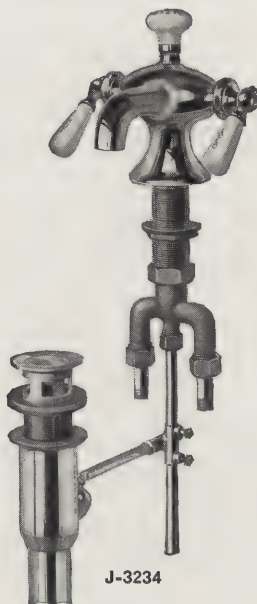


J-3232

Size Inches	PRICE EACH	
	Plain Bibbs	Hose Bibbs
1/2	<b>3.20</b>	<b>3.55</b>
3/4	<b>3.45</b>	<b>3.80</b>

### DOUBLE BASIN COCKS

WITH POP-UP WASTE



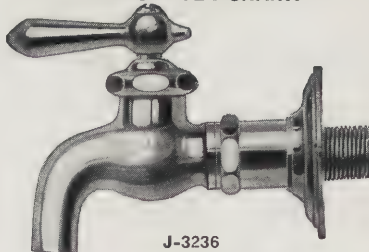
J-3234

Nickel-plated Combination Double Basin Cock and Pop-up Waste with China Handles and Knob.

Price..... each **27.50**

### NICKEL-PLATED SINK BIBBS

ADJUSTABLE SCREW FLANGE  
DETACHABLE SHANK



J-3236

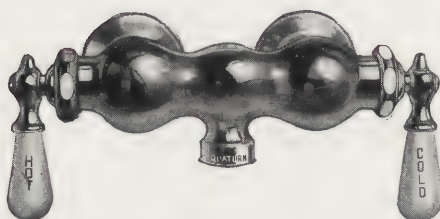
Size Inches	PRICE, EACH	
	Plain Bibbs	Hose Bibbs
1/2	<b>4.50</b>	<b>4.85</b>
3/4	<b>5.00</b>	<b>5.35</b>



## QUATURN QUICK COMPRESSION WORK

### DOUBLE BATH COCKS

#### WITH SIDE HANDLES



J-3238

Quaturn quick compression work has a standardized interchangeable working unit which is the same in all quaturn faucets. The seat of the faucet is renewable and there is no wear on the body. Quaturn faucets close with the pressure—no danger of automatic opening.

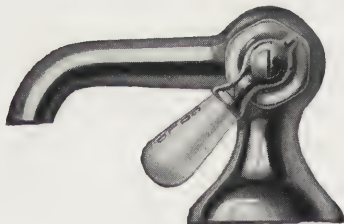
Price, N. P. with Locknuts Only  
 .....each 10.00

Price, N. P. with Rough N. P.  
 Coupling Nuts.....each 10.40

Price, N. P. with Rough N. P. 90°  
 Male Ells.....each 11.50

### BASIN COCKS

#### WITH SIDE HANDLE



J-3240

Quaturn Side Handle Basin Cock,  
 Nickel-plated, with China Index Handle.

Price.....each 5.50

### DOUBLE BATH COCKS

#### WITH TOP HANDLES



J-3242

Price, N. P. with Locknuts Only  
 .....each 7.25

Price, N. P. with Rough N. P.  
 Coupling Nuts.....each 7.65

Price, N. P. with Rough N. P. 90°  
 Male Ells.....each 8.75

### BASIN COCKS

#### WITH TOP HANDLE



J-3244

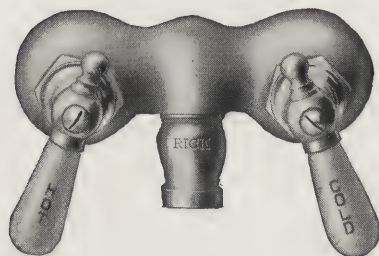
Quaturn Top Handle Basin Cock,  
 Nickel-plated with China Index Lever  
 Handle.

These basin cocks open to full flow on one eighth turn of handle. Comes to stop at quarter turn. The handle can be placed in any position by locking on the cap.

Price.....each 4.00

## QUICK COMPRESSION WORK

### BATH COCKS

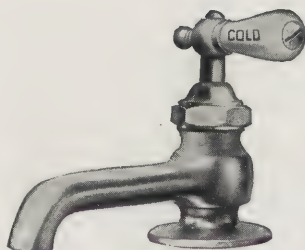


**J-3246**

Nickel-plated Quick Compression Bath Cock with China Lever Handles.

Price.....each .....

### BASIN COCKS



**J-3248**

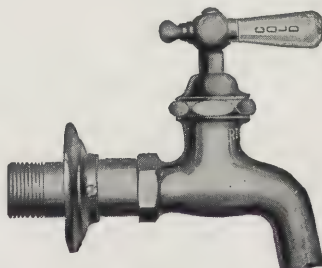
Nickel-plated Quick Compression Basin Cock with China Lever Handle.

Price.....per dozen .....

Quick Compression work is fitted with knurled stem and broached handle which allows perfect adjustment to be made when necessary.

### SINK BIBBS

S. O. T. WITH SET SCREW FLANGE



**J-3250**

#### WITH CHINA HANDLE

Size.....inches	$\frac{1}{2}$	$\frac{3}{4}$
Price, Finished...per doz.	<b>37.20</b>	<b>43.80</b>
" Nickel-plated... "	<b>40.80</b>	<b>47.40</b>

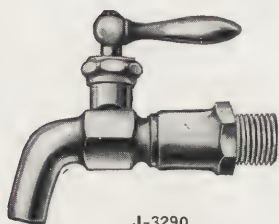
#### WITH BRASS HANDLE

Size.....inches	$\frac{1}{2}$	$\frac{3}{4}$
Price, Finished...per doz.	<b>31.20</b>	<b>37.80</b>
" Nickel-plated... "	<b>34.80</b>	<b>41.40</b>

## FULLER BIBBS

FOR IRON PIPE

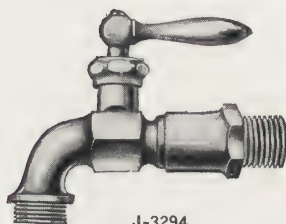
### PLAIN BIBBS



J-3290

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	23.40	28.20
3/4	27.60	32.40

### HOSE BIBBS

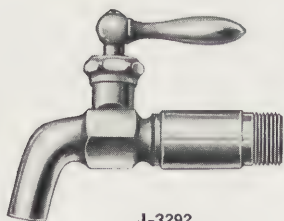


J-3294

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	27.00	31.80
3/4	31.20	36.00

### PLAIN BIBBS

S. O. T.

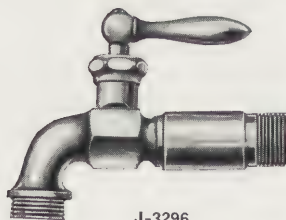


J-3292

Size Inches	PRICE, PER DOZEN		
	Finished	Nickel-plated	Add for Hexagon on Shank
1/2	26.40	31.20	1.80
3/4	31.20	36.00	1.80

### HOSE BIBBS

S. O. T.



J-3296

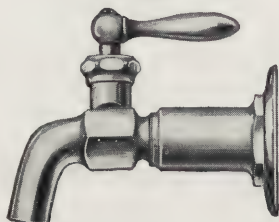
Size Inches	PRICE, PER DOZEN		
	Finished	Nickel-plated	Add for Hexagon on Shank
1/2	30.00	34.80	1.80
3/4	34.80	39.60	1.80

## FULLER BIBBS

FOR IRON PIPE

### SOLID FLANGE FEMALE

WITH HEXAGON



J-3298

#### PLAIN BIBBS

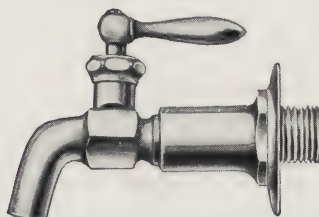
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	29.40	34.20
3/4	34.80	39.60

#### HOSE BIBBS

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	33.00	37.80
3/4	38.40	43.20

### SOLID FLANGE MALE

WITH HEXAGON



J-3302

#### PLAIN BIBBS

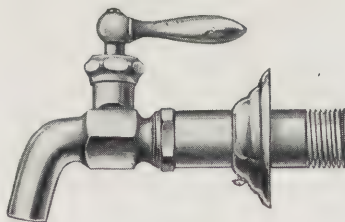
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	31.20	36.00
3/4	36.60	41.40

#### HOSE BIBBS

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	34.80	39.60
3/4	40.20	45.00

### ADJUSTABLE SET SCREW FLANGE

PLAIN BIBBS



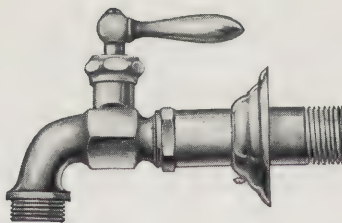
J-3300

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	33.60	38.40
3/4	39.00	43.80

If without Hexagon, deduct, per doz. 1.80

### ADJUSTABLE SET SCREW FLANGE

HOSE BIBBS



J-3304

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	37.20	42.00
3/4	42.60	47.40

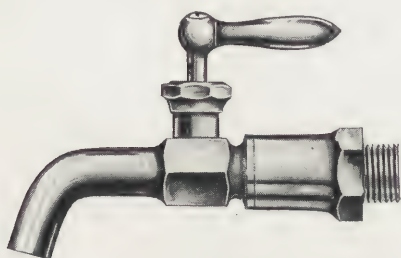
If without Hexagon, deduct, per doz. 1.80



## FULLER BIBBS

### LONG SPOUT

#### FOR IRON PIPE



J-3306

#### PLAIN BIBBS

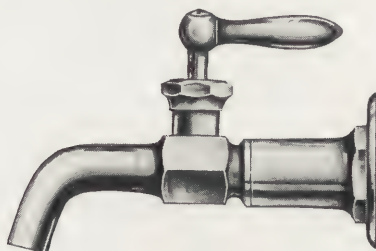
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	37.80	42.60
3/4	42.00	46.80

#### HOSE BIBBS

Size Inches	Finished	Nickel-plated
1/2	41.40	46.20
3/4	45.60	50.40

Add for China Handles per doz. 9.00

#### FEMALE SOLID FLANGE



J-3308

#### PLAIN BIBBS

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	43.80	48.60
3/4	49.20	54.00

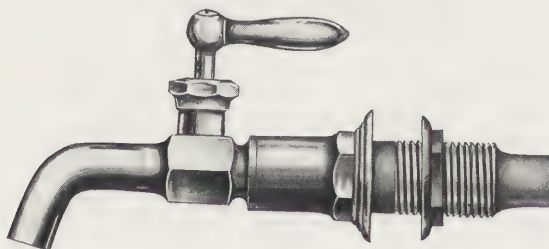
#### HOSE BIBBS

Size Inches	Finished	Nickel-plated
1/2	47.40	52.20
3/4	52.80	57.60

Add for China Handles per doz. 9.00  
 " " Male End..... " 1.80

### FEMALE SOLID FLANGE

#### DETACHABLE THIMBLE AND LOCKNUT



J-3310

#### PLAIN BIBBS

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	67.80	72.60
3/4	72.00	76.80

Add for China Handles per doz. 9.00

#### HOSE BIBBS

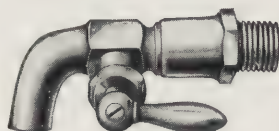
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	71.40	76.20
3/4	75.60	80.40

Add for China Handles per doz. 9.00

## FULLER WASH TRAY BIBBS

FOR IRON PIPE

**WITH SHOULDER**

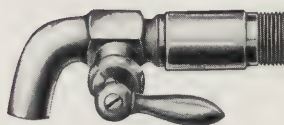


J-3312

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	25.80	30.60
3/4	31.20	36.00

Add for Hose End.....per doz. 9.00

**S. O. T.**

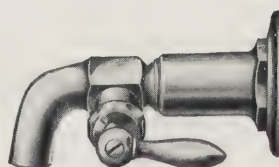


J-3316

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	28.80	33.60
3/4	34.80	39.60

Add for Hose End.....per doz. 9.00

**SOLID FLANGE, FEMALE**

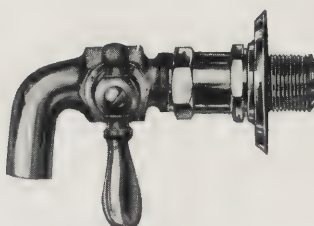


J-3314

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	31.80	36.60
3/4	38.40	43.20

Add for Hose End.....per doz. 9.00  
 " " Male Thread..... " 1.80

**ADJUSTABLE EXTENSION  
FLANGE AND HEXAGON**



J-3318

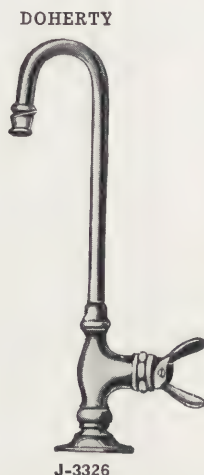
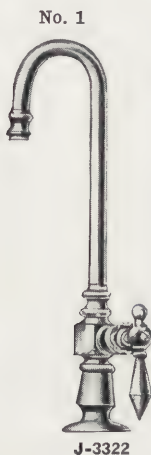
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
1/2	39.00	43.80
3/4	47.40	52.20

Add for Hose End.....per doz. 9.00

## PANTRY AND SHAMPOO COCKS

### PANTRY COCKS

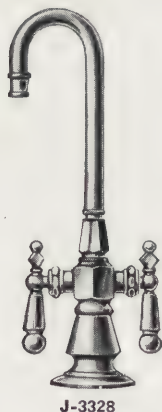
#### FULLER



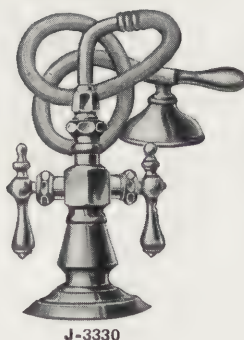
Price, Fuller, No. 0 or No. 1, Nickel-plated.....	per dozen	54.00
Add for Hose End .....	"	3.60
" " Union.....	"	6.00
" " China Handle.....	per dozen handles	9.00
Price, Boston, Finished or Nickel-plated.....	per dozen	64.80
" " with Hose End Finished or Nickel-plated.....	"	68.40
" Doherty, Finished or Nickel-plated.....	"	69.60
" " with Hose End, Finished or Nickel-plated.....	"	73.20

#### FULLER

#### DOUBLE PANTRY COCK



#### DOUBLE SHAMPOO COCK WITH SWINGING TUBE



Price, Double Pantry Cocks, Nickel-plated .....	each	12.75
Add for Hose End.....	per dozen	3.60
Price, Double Shampoo Cocks, Nickel-plated.....	each	13.50
Add for China Handles.....	per cock	1.50

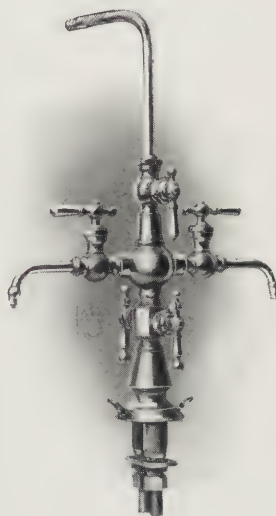
## FULLER COMBINATION BASIN AND SHAMPOO COCKS

SINGLE



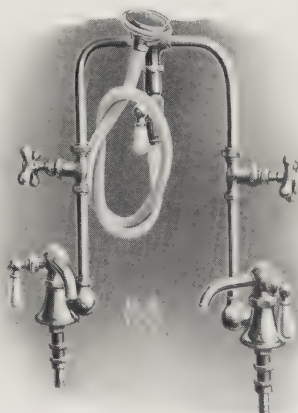
J-3332

DOUBLE



J-3334

J-3332—Nickel-plated Fuller Single Combination Basin and Shampoo Cocks . each	25.00
J-3334— “ “ “ Double “ “ “ “ “	30.00
If with Compression Base, add . . . . .	3.00
“ “ China Handles, add per Lever . . . . .	.75



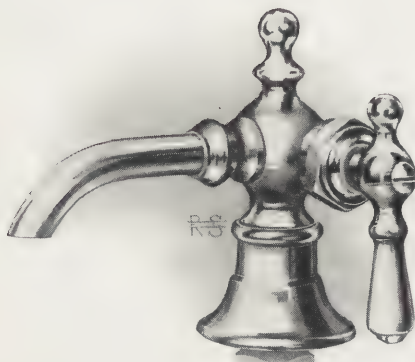
J-3336

Nickel-plated Combination Basin and Shampoo Supply with Controlling Cock, China Handles, Spray and Rubber Tubing . . . . .	47.50
If without Rubber Tube and Sprinkler, deduct . . . . .	2.50



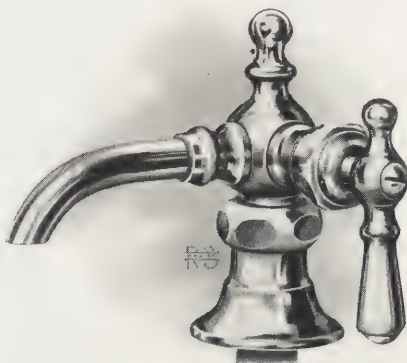
## FULLER BASIN COCKS

No. 0



J-3338

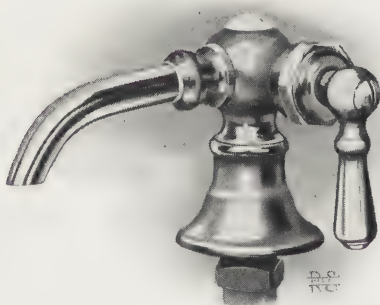
No. 0, WITH UNION



J-3340

Price, No. 0, Nickel-plated.....	per dozen	39.00
“ “ 0. “ “ with Union.....	“	51.00

No. 0, WITH CHINA INDEX



J- 3342

No. 0, WITH CHINA HANDLE AND INDEX



J-3344

Price, No. 0, Nickel-plated, with China Index.....	per dozen	45.00
“ “ 0, “ “ “ “ Handle and Index .....	“	54.00

FULLER BASIN COCKS

No. 10



J-3346

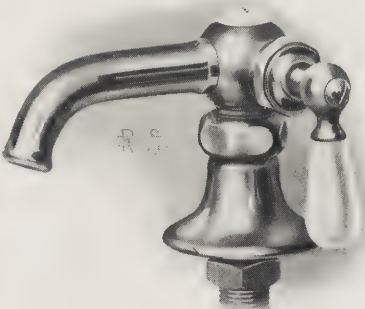
No. 11



J-3348

Price, No. 10, Nickel-plated, with China Handle.....	per dozen	66.00
" " 11, " " " " " and Index.....	"	72.00

No. 12



J-3350

No. 13



J-3352

Price, No. 12, Nickel-plated, with Union, China Handle and Index....	per dozen	84.00
" " 13, " " " " and China Index .....	"	75.00
If without China Index, deduct.....	"	6.00

## FULLER BASIN COCKS

No. 00



J-3354

No. 15



J-3356

Price,	No. 00,	Nickel-plated,	with Union,	China Handle and Index.	... per dozen	69.00
"	"	15,	"	with China Skirting, Handle and Index.	"	120.00

## BRACKET SWING COCK



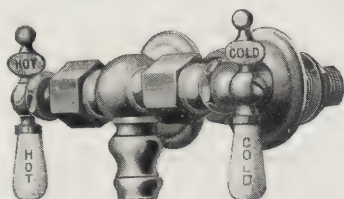
J-3358

Price,	Nickel-plated Bracket Swing Cock	with China Handle	..... per dozen	81.00
if	with Nickel-plated Brass Handle,	deduct	..... "	9.00

## FULLER DOUBLE BATH COCKS

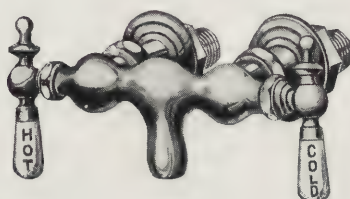
3 $\frac{3}{8}$  INCHES CENTER TO CENTER

**HEXAGON BODY**



**J-3360**

**ROUND BODY**



**J-3362**

Price, Nickel-plated, Hexagon Body, China Handles.....each	8.50
" " " " Nickel-plated Handles....."	7.00
" " Round Body, China Handles....."	8.50
" " " " Nickel-plated Handles....."	7.00

Regularly furnished with locknuts only and without couplings, hose spray coupling or jewel cup. Add for soap cups, 1.00. Add for nozzle, 1.00.

### COUPLINGS

**L. P. COUPLING**



**J-3364**

**MALE  
I. P. COUPLING**



**J-3366**

**FEMALE  
I. P. COUPLING**



**J-3368**

**BALL OFFSET  
COUPLING**



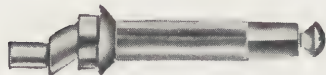
**J-3370**

Price, Lead Pipe Couplings, Rough.....per set	.80
" Male Iron Pipe Couplings, Rough....."	.95
" " " " Finished....."	1.40
" Female " " " Rough....."	1.65
" " " " Finished....."	2.25
" Ball Offset Couplings, Finished....."	2.25



## FULLER AND COMPRESSION REPAIRS

### FULLER ECCENTRIC



J-3372

Size.....inches	1/2	3/4	1
Price.....per dozen	3.00	4.20	9.00

### FULLER STEM AND BALL



J-3374

Size.....inches	1/2	3/4	1
Price.....per dozen	3.00	4.20	9.00

### ADJUSTABLE STEM AND BALL



J-3376

Size.....inches	1/2	3/4
Price.....per dozen	4.80	5.00

Fuller Ball	Brass Cap	Stem Nut	Packing
			
J-3378	J-3380	J-3382	J-3384

Size.....inches	1/2	3/4	1
Price Rubber Ball, Cold, per Doz.	.25	.35	.60
" " " Hot "	.50	.70	1.20
" Brass Caps "	.40	.60	.65
" Stem Nut "	.30	.40	.50
" Compression Packing "	.75	.75	.75
" Lead Packing "	.30	.30	.30
" Brass "	.50	.50	.50

### BIBB WASHERS



J-3386

Size.....inches	1/2	3/4	1
Price, Boss Rubber			
.....per 100	1.30	1.30	1.80
Price, Jenkins Hot or Cold.....per 100	1.50	1.50	1.50
Price, Fibre.. " 100	.75	.75	.75

### SOLID BIBB DISCS



J-3388

Size of Bibb.....	1/2	3/4	1
Price.....per 100	1.30	2.00	2.40

### TOP PACKING



J-3390

Size of Bibb.....	1/2	3/4
Price.....per 100	1.30	2.00

### BRASS BIBB SCREWS



J-3392

Screw Gauge No.	Threads to Inch	PRICE, PER DOZEN				
		LENGTH, INCHES				
		3/8	1/2	5/8	3/4	7/8
6	32	.30	.30	.30	.40	.40
8	32	.30	.30	.30	.40	.40
9	32	.30	.30	.30	.40	.40
10	24	.30	.30	.30	.40	.40
10	28	.30	.30	.30	.40	.40
10	32	.30	.30	.30	.40	.40
12	24	.35	.35	.45	.45	.45
14	20	.40	.40	.50	.50	.50

Screw Gauge No.	Threads to Inch	PRICE, PER DOZEN			
		LENGTH, INCHES			
		1	1 1/4	1 1/2	2
6	32	.45	.45	.50	.55
8	32	.45	.50	.55	.60
9	32	.45	.50	.55	.60
10	24	.45	.50	.55	.60
10	28	.45	.50	.55	.65
10	32	.45	.50	.55	.65
12	24	.55	.55	.60	.70
14	20	.60	.60	.65	.75

### BRASS BIBB SCREW NUTS SQUARE, ROUND OR HEXAGON



J-3394

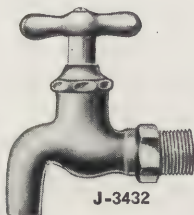
For Screw....No.	6	8	9	10
Threads to inch..	32	32	32	24
Price....per gross	3.75	3.75	3.75	3.75
For Screw....No.	10	10	12	14
Threads to inch..	28	32	24	20
Price....per gross	3.75	3.75	4.50	4.50

## BOSTON SELF-CLOSING BIBBS

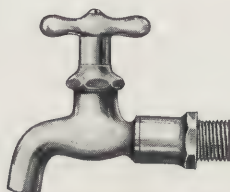
FOR IRON PIPE

WITH SHOULDER

DETACHABLE SHANK



J-3432



J-3436

Size  
Inches  
 $\frac{3}{8}$   
 $\frac{1}{2}$   
 $\frac{3}{4}$

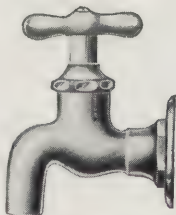
PRICE, PER DOZEN	
Finished	Nickel-plated
29.40	35.40
30.60	36.60
37.20	43.20

Size  
Inches  
 $\frac{1}{2}$   
 $\frac{3}{4}$

PRICE, PER DOZEN	
Finished	Nickel-plated
36.60	42.60
44.40	50.40

### FEMALE SOLID FLANGE

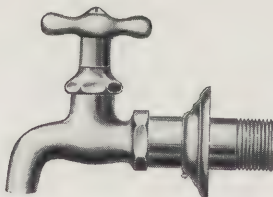
WITH HEXAGON



J-2434

### S. O. T. WITH HEXAGON

SET SCREW FLANGE



J-3438

Size  
In.  
 $\frac{1}{2}$   
 $\frac{3}{4}$

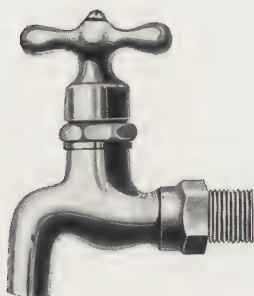
PRICE, PER DOZEN			
Fin.	N. P.	Extra For Male End	Deduct For Hexagon
36.60	42.60	1.80	1.80
44.40	50.40	1.80	1.80

Size  
Inches  
 $\frac{1}{2}$   
 $\frac{3}{4}$

PRICE, PER DOZEN	
Finished	Nickel-plated
40.20	46.20
48.00	54.00

## BALL-BEARING SELF-CLOSING BIBBS

### FOR IRON PIPE

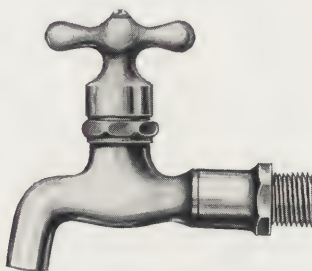


J-3440

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{3}{8}$	39.00	45.00
$\frac{1}{2}$	40.20	46.20
$\frac{3}{4}$	46.80	52.80

### DETACHABLE SHANK

#### FOR IRON PIPE

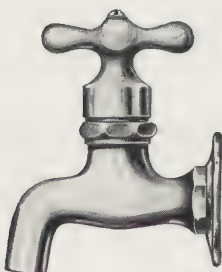


J-3444

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{1}{2}$	46.20	52.20
$\frac{3}{4}$	54.00	60.00

### SOLID FLANGE FEMALE

#### WITH HEXAGON FOR IRON PIPE

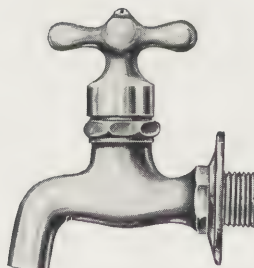


J-3442

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{1}{2}$	46.20	52.20
$\frac{3}{4}$	54.00	60.00

### SOLID FLANGE MALE

#### WITH HEXAGON FOR IRON PIPE

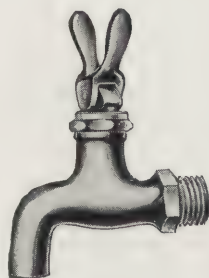


J-3446

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{1}{2}$	48.00	54.00
$\frac{3}{4}$	55.80	61.80

## DOHERTY SELF-CLOSING BIBBS

### FOR IRON PIPE

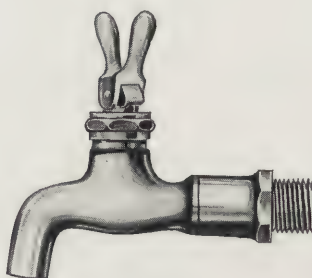


J-3448

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{3}{8}$	34.20	40.20
$\frac{1}{2}$	35.40	41.40
$\frac{3}{4}$	42.00	48.00

### DETACHABLE SHANK

#### FOR IRON PIPE

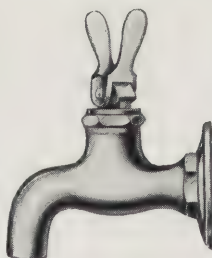


J-3452

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{1}{2}$	41.40	47.40
$\frac{3}{4}$	49.20	55.20

### SOLID FLANGE FEMALE

#### WITH HEXAGON FOR IRON PIPE

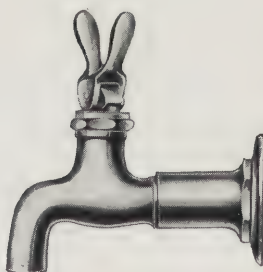


J-3450

Size In.	PRICE, PER DOZEN		Add for Male End per Doz.
	Finished	Nickel-plated	
$\frac{1}{2}$	41.40	47.40	1.80
$\frac{3}{4}$	49.20	55.20	1.80

### DETACHABLE SHANK FEMALE

#### WITH HEXAGON FOR IRON PIPE



J-3454

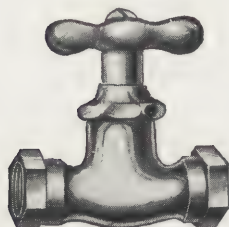
Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plate
$\frac{1}{2}$	47.40	53.40
$\frac{3}{4}$	56.40	62.40



## SELF-CLOSING STOPS

FOR IRON PIPE

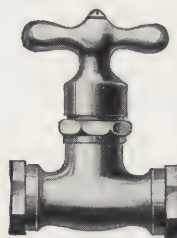
### BOSTON PATTERN WITH CAM ACTION HANDLE



J-3456

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{3}{8}$	29.40	35.40
$\frac{1}{2}$	30.60	36.60
$\frac{5}{8}$	37.20	43.20
$\frac{3}{4}$	47.40	55.20

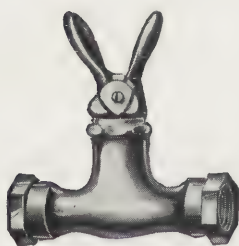
### BOSTON PATTERN WITH BALL BEARING HANDLE



J-3460

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{3}{8}$	39.00	45.00
$\frac{1}{2}$	40.20	46.20
$\frac{5}{8}$	46.80	52.80
$\frac{3}{4}$	57.00	64.80

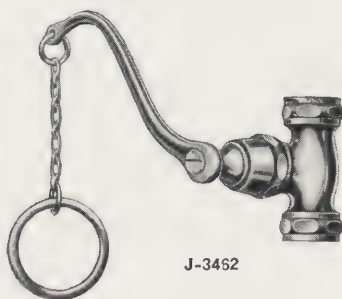
### DOHERTY PATTERN



J-3458

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{3}{8}$	34.20	40.20
$\frac{1}{2}$	35.40	41.40
$\frac{5}{8}$	42.00	48.00
$\frac{3}{4}$	52.20	60.00

### SHOWER STOPS WITH LEVER HANDLE



J-3462

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
$\frac{1}{2}$	52.80	58.80
$\frac{5}{8}$	59.40	65.40
$\frac{3}{4}$	76.20	84.00

## SELF-CLOSING BASIN COCKS

### BOSTON

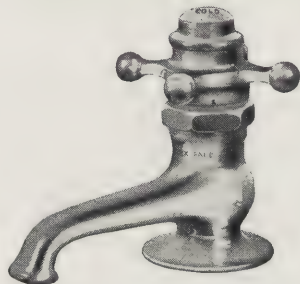


J-3464

Price, Finished or Nickel-plated  
.....per dozen 47.40

### REX BALL BEARING

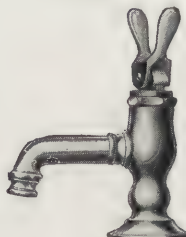
CROSS HANDLE WITH CHINA INDEX



J-3466

Price, Finished or Nickel-plated  
.....per dozen 72.00

### DOHERTY

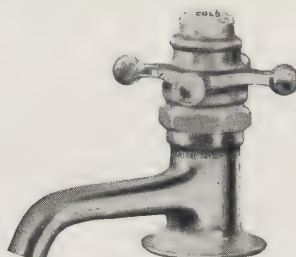


J-3468

Price, Finished or Nickel-plated  
.....per dozen 52.20

### STANDARD BALL BEARING

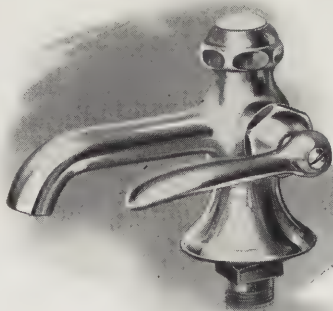
CROSS HANDLE WITH CHINA INDEX



J-3470

Price, Finished or Nickel-plated  
.....per dozen 66.00

### HECLA

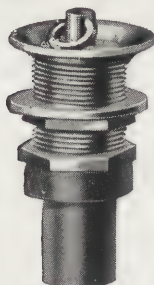


J-3472

Price, Nickel-plated .....per dozen 55.20

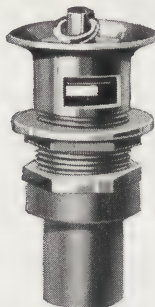
## PLUGS WITH RUBBER STOPPERS

**BASIN PLUG  
COMMON OVERFLOW**



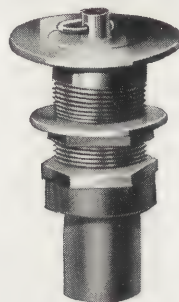
J-3512

**BASIN PLUG  
PATENT OVERFLOW**



J-3514

**WASH TRAY PLUG**



J-3516

### BASIN PLUGS

Size.....	inches	1	1 1/4
Price, Common Overflow, Finished.....	per dozen	9.36	12.96
“ “ “ Nickel-plated.....	“	10.80	14.40
“ Patent “ Finished.....	“	10.80	14.40
“ “ “ Nickel-plated.....	“	12.96	16.56

### WASH TRAY PLUGS

Size.....	inches	1	1 1/4	1 1/2	2
Price, Finished.....	per dozen	23.76	25.92	32.40	50.40
“ Nickel-plated.....	“	25.92	29.52	36.00	57.60

### RUBBER STOPPERS

#### REGULAR

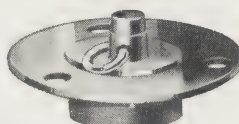
#### SPECIAL

**SINK OR BATH  
PLUG**

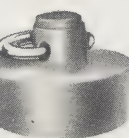


J-3518

**WASH TRAY PLUG**



J-3520



J-3522



J-3524

### SINK OR BATH PLUGS

Size.....	inches	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4
Price, Finished.....	per dozen	2.88	2.88	3.60	5.04	10.08	18.00	21.60	43.20
“ Nickel-plated.....	“	3.60	3.60	4.32	5.76	11.52	20.88	25.20	50.40

### WASH TRAY PLUGS

Size.....	inches	1 1/4	1 1/2	2	2 1/2	3	4
Price, Finished.....	per dozen	7.20	8.64	12.96	21.60	27.36	54.00
“ Nickel-plated.....	“	9.36	10.80	16.56	25.20	32.40	64.80

### REGULAR RUBBER STOPPERS

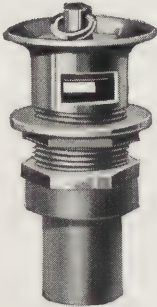
Size.....	inches	3/4	7/8	1	1 1/8	1 1/4	1 1/2	2	2 1/2	3
Price.....	per dozen	1.44	1.44	1.44	1.56	1.80	2.28	3.24	4.20	5.40

### SPECIAL RUBBER STOPPERS

Price, Basin Size.....	per dozen	3.00	Price, Bath Size.....	per dozen	4.00
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## PLUGS WITH METAL STOPPERS

### BASIN PLUGS PATENT OVERFLOW



J-3526

Size  
O. D. Tail  
Piece  
Inches

1  
1 1/4

PRICE, PER DOZEN	
Fin.	N. P.
9.00	10.80
12.00	13.80

### BASIN PLUGS COMMON OVERFLOW



J-3528

Size  
O. D. Tail  
Piece  
Inches

1  
1 1/4

PRICE, PER DOZEN	
Fin.	N. P.
7.80	9.00
10.80	12.00

### SINK OR BATH PLUGS



J-3530

Size  
O. D. Tail  
Piece  
Inches

1  
1 1/4  
1 1/2  
2

PRICE, PER DOZEN	
Fin.	N. P.
2.40	3.00
3.00	3.60
4.20	4.80
8.40	9.60

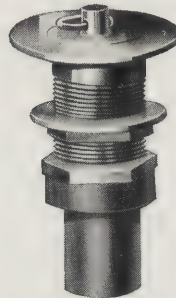
### WASH TRAY PLUGS FOR IRON PIPE



J-3532

Size Inches	Diam. Flanges Inches	PRICE, PER DOZEN	
		Fin.	N. P.
1	2 7/8	15.00	18.00
1 1/4	3	15.60	18.60
1 1/2	3 3/8	24.00	28.80
2	3 5/8	48.00	54.00

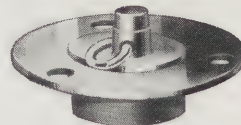
### WASH TRAY PLUGS FOR LEAD PIPE



J-3534

Size Inches	Diam. Flanges Inches	PRICE, PER DOZEN	
		Fin.	N. P.
1	2 7/8	19.80	21.60
1 1/4	3	21.60	24.60
1 1/2	3 3/8	30.00	36.00
2	3 5/8	60.00	75.00

### PLAIN WASH TRAY PLUGS



J-3536

Size Inches	PRICE, PER DOZEN	
	Fin.	N. P.
1 1/4	6.00	7.80
1 1/2	7.20	9.00
2	10.80	13.80



## BRASS SOLDER BUSHINGS, ETC.

### BRASS SOLDER BUSHINGS

WITH MALE I. P. THREAD



**J-3538**

I. P. Thread Inches	O. D. Tubing Inches	Price Each
1 1/4	1 1/4	.30
1 1/4	1 3/8	.30
1 1/2	1 1/4	.45
1 1/2	1 3/8	.45
1 1/2	1 1/2	.40
2	1 1/2	.75
2	2	.75

### BRASS SOLDER BUSHINGS

WITH FEMALE I. P. THREAD

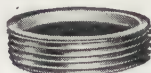


**J-3540**

I. P. Thread Inches	O. D. Tubing Inches	Price Each
1 1/4	1 1/4	.45
1 1/4	1 3/8	.45
1 1/2	1 1/4	.65
1 1/2	1 3/8	.65
1 1/2	1 1/2	.65
2	1 1/2	1.10
2	2	1.10

### FLUSH SOLDER BUSHINGS

WITH IRON PIPE THREAD



**J-3542**

I. P. Thread Inches	O. D. Tubing Inches	Price Each
1 1/4	1 1/4	.17
1 1/4	1 3/8	.15
1 1/2	1 1/4	.27
1 1/2	1 3/8	.25
1 1/2	1 1/2	.20

### SLIP JOINT COUPLING NUTS



**J-3544**

I. P. Thread Inches	O. D. Tubing Inches	Price, N. P. Each
3/8	7/16	.15
1/2	7/16	.20
1/2	9/16	.20
3/4	9/16	.22 1/2
3/4	2 1/2	.25
3/4	2 3/4	.25
1	2 3/4	.25
1 1/4	1 1/4	.27 1/2
1 1/4	1 3/8	.27 1/2
1 1/2	1 1/4	.30
1 1/2	1 3/8	.30
1 1/2	1 1/2	.30
2	2	.30

Nuts are furnished with friction rings and washers.

### CAST BRASS FLANGES

WITH SET SCREW



**J-3546**

O. D. Inches	I. D. Inches	Price, N. P. Each
2 1/2	9/16	.33
2 1/2	2 1/2	.33
2 1/2	2 3/4	.33
3	1	.36
3	1 1/4	.42
3	1 3/8	.42
3	1 1/2	.45

### CLOSET SPUD REDUCERS



**J-3548**

Size Inches	PRICE, EACH	
	Rough Brass	Finished N. P.
1 1/2 x 1 1/4	.87 1/2	.95
2 x 1 1/4	.87 1/2	.95
2 x 1 1/2	.87 1/2	.95

## FINE THREAD BRASS FITTINGS

### 90° ELBOWS



J-3550

Size.....inches	1¼	1½
Price, Nickel-plated.....each	.50	.60

### 45° ELBOWS



J-3552

Size.....inches	1¼	1½
Price, Nickel-plated.....each	.50	.60

### 90° ELBOWS

#### SLIP JOINT ONE END



J-3554

Size.....inches	1¼	1½
Price, Nickel-plated.....each	.65	.80

### 45° ELBOWS

#### SLIP JOINT ONE END



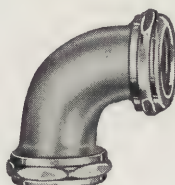
J-3556

Size.....inches	1¼	1½
Price, Nickel-plated.....each	.65	.80

All fittings can be reamed to solder if specified.

### 90° ELBOWS

#### SLIP JOINT BOTH ENDS

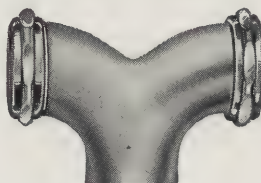


J-3558

Size.....inches	1¼	1½
Price, Nickel-plated.....each	.80	.95

### TWIN ELBOWS

#### SLIP JOINT TWO ENDS

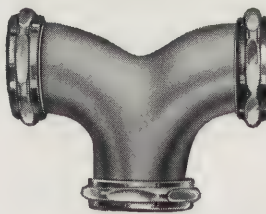


J-3560F

Size.....inches	1¼	1½
Price, Nickel-plated]...each	1.20	1.40

### TWIN ELBOWS

#### SLIP JOINT ALL ENDS



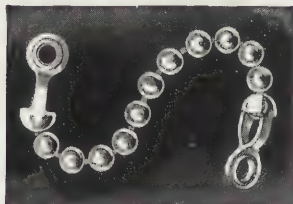
J-3562

Size.....inches	1¼	1½
Price, Nickel-plated.....each	1.30	1.50

All fittings can be reamed to solder if specified.

## CHAINS, CHAIN STAYS, ETC.

### NICKEL PLATED BEAD CHAINS



J-3564

Price, Basin Chain, 11 Inches Long . . . per dozen	3.00
" Bath " 17 " " " " "	3.50
" Wash Tray Chain, 11 Inches Long . . . "	3.00



J-3566

### PLUMBERS CHAINS WITH SNAPS

No.	—PRICE, BRASS PER DOZEN—		
	Basin	Bath	Tray
00	1.00	1.40	1.15
0	1.20	1.65	1.35
1	1.40	2.00	1.60
2	....	2.45	1.95

Net extra for nickel-plating.

### PLUMBERS CHAINS

No.	Boxes of 12 Yds. 500-ft. Reels	
	Price, Brass per Box	Price, Brass per 100 Ft.
00	1.45	4.00
0	1.80	5.00
1	2.25	6.25
2	2.90	8.00
3	3.60	10.00
4	4.15	11.50

Net extra for nickel-plating.



J-3568

### SPLIT LINKS

Style . . . . .	Small	Large
Price, Brass . . . per gross	1.50	1.75

### EIGHT HOOKS

No.	Price, Brass per Gross	No.	Price, Brass per Gross	No.	Price, Brass per Gross
1 1/2	3.25	3 1/2	1.50	4	1.30
1 1/2 S	3.00	1	2.25	5	1.10
1 1/2	2.75	2	1.80	6	.90
2 1/2	2.00	3	1.50	7	.85

Net extra for nickel-plating.



J-3570

Chain Stay



J-3572

Cock Hole Cover for Lavatory



J-3574

Price, Chain Stays, N. P. . . per dozen	3.60
" Cock Hole Covers, N. P. . . . . per dozen	4.20

Bath Overflow Cover



J-3576

Bath Cock Hole Cover



J-3578

Price, Overflow Covers, Nickel-plated . . . . . per dozen	7.20
Price, Cock Hole Covers, Nickel-plated . . . . . per dozen	3.60

### ROUND STRAINERS



J-3580

Size Inches

1 1/4  
1 1/2  
2  
2 1/2  
3  
4

PRICE, PER DOZEN

Finished	Nickel-plated
1.20	1.80
1.80	2.40
1.80	3.00
2.40	4.20
3.00	6.00
4.80	8.40

### HOSE BIBB ENDS



J-3582

Size Inches

1/2  
3/4  
1

Price Finished per Dozen

3.00  
3.60  
6.00

Size Inches

1 1/4  
1 1/2  
...

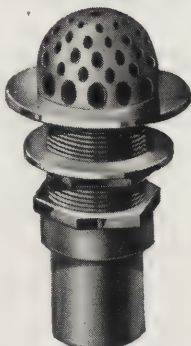
Price Finished per Dozen

9.00  
12.00  
....

## STRAINERS

### URINAL STRAINERS

BEEHIVE OR RAISED  
WITH COUPLING



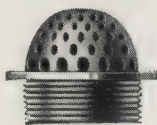
J-3584

Size Outlet Inches	Diam. Flange Inches	PRICE, PER DOZEN	
		Finished	N. P.
1 1/4	3	30.00	36.00
1 1/2	3	42.00	48.00
2	4	60.00	66.00

### RAISED STRAINERS

For Iron Pipe

With Trap Screw



J-3586



J-3588

Size Inches	PRICE, PER DOZEN			
	FOR IRON PIPE Fin.	N. P.	WITH TRAP SCREW Fin.	N. P.
2	13.20	15.00	15.00	17.40
2 1/2	18.00	21.00	21.00	24.00
3	26.40	30.00	30.00	34.20
4	45.00	51.00	48.00	54.00

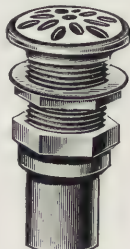
WITH FLANGE



J-3590

Size Inches	PRICE, PER DOZEN	
	Finished	Nickel-plated
2	8.40	10.20
3	12.00	15.00
3 1/2	18.00	22.20
4	24.00	30.00

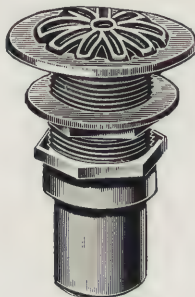
### BASIN GRATES



J-3592

Price, Nickel-plated . . . per dozen 21.00

### SLOP SINK GRATES

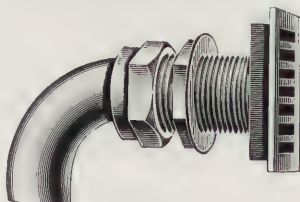


J-3594

Size Inches	Diameter Flange Inches	PRICE, PER DOZEN	
		Fin.	N. P.
1	2 1/4	21.00	22.80
1 1/4	3 1/2	24.00	27.00
1 1/2	3 1/2	30.00	36.00
2	4	45.00	51.00

### OVERFLOW GRATES

FOR PORCELAIN SINKS



J-3596

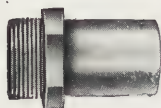
Price, Finished . . . . . per dozen 27.00  
 " Nickel-plated . . . . . " 30.00



## SOLDERING NIPPLES AND UNIONS

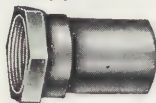
### SOLDERING NIPPLES

Male



J-3538

Female



J-3600

### GROUND JOINT VENT COUPLINGS



J- 3604

#### MALE

Size In.	Price per Doz.	Size In.	Price per Doz.
$\frac{3}{8}$	3.60	$1\frac{1}{2}$	15.00
$\frac{1}{2}$	4.20	2	21.00
$\frac{3}{4}$	6.00	$2\frac{1}{2}$	36.00
1	8.40	3	48.00
$1\frac{1}{4}$	10.80	4	84.00

#### STRAIGHT

Size In.	Price per Doz.	Size In.	Price per Doz.
$\frac{3}{8}$	9.60	$1\frac{1}{4}$	21.00
$\frac{1}{2}$	11.40	$1\frac{1}{2}$	27.00
$\frac{3}{4}$	14.40	2	39.00
1	18.60	...	....

#### FEMALE

Size In.	Price per Doz.	Size In.	Price per Doz.
$\frac{3}{8}$	3.60	$1\frac{1}{2}$	15.00
$\frac{1}{2}$	4.20	2	21.00
$\frac{3}{4}$	6.00	$2\frac{1}{2}$	36.00
1	8.40	3	48.00
$1\frac{1}{4}$	10.80	4	84.00

#### BENT

Size In.	Price per Doz.	Size In.	Price per Doz.
$\frac{3}{8}$	11.40	$1\frac{1}{4}$	24.00
$\frac{1}{2}$	14.40	$1\frac{1}{2}$	33.00
$\frac{3}{4}$	18.60	2	45.00
1	22.20	...	....

### SOLDERING UNIONS

#### STRAIGHT



J-3602

Size In.	Price per Doz.	Size In.	Price per Doz.
$\frac{3}{8}$	4.80	$1\frac{1}{4}$	13.20
$\frac{1}{2}$	6.00	$1\frac{1}{2}$	15.00
$\frac{3}{4}$	7.80	2	21.00
1	10.20	...	....

#### BENT



J-3606

Size In.	Price per Doz.	Size In.	Price per Doz.
$\frac{3}{8}$	7.20	$1\frac{1}{4}$	16.20
$\frac{1}{2}$	8.40	$1\frac{1}{2}$	22.80
$\frac{3}{4}$	9.60	2	30.00
1	12.00	...	....

## TRAP SCREWS

### REGULAR



J-3608

Size .....	inches	1/2	3/4
Price, Finished....	per doz.	1.80	2.40
" Nickel-plated "	"	4.20	4.80
Size .....	inches	1	1 1/4
Price, Finished....	per doz.	3.00	3.60
" Nickel-plated "	"	5.40	6.60
Size .....	inches	1 1/2	2
Price, Finished....	per doz.	4.20	7.20
" Nickel-plated "	"	7.20	12.00
Size .....	inches	2 1/2	3
Price, Finished....	per doz.	12.00	15.00
" Nickel-plated "	"	15.00	21.00
Size .....	inches	3 1/2	4
Price, Finished....	per doz.	18.00	21.00
" Nickel-plated "	"	24.00	27.00
Size .....	inches	5	6
Price, Finished....	per doz.	27.00	42.00
" Nickel-plated "	"	36.00	54.00

### WITH PROJECTING FLANGE FOR MARBLE OR TILE FLOORS



J-3610

Size .....	inches	2	2 1/2
Price, Finished....	per doz.	12.00	15.00
" Nickel-plated "	"	16.80	21.00
Size .....	inches	3	3 1/2
Price, Finished....	per doz.	21.00	24.00
" Nickel-plated "	"	27.00	30.00
Size .....	inches	4	5
Price, Finished....	per doz.	27.00	36.00
" Nickel-plated "	"	36.00	48.00

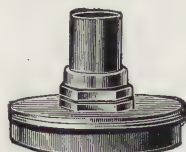
### WITH COUNTERSUNK CAP



J-3612

Size .....	inches	2	2 1/2
Price, Finished....	per doz.	7.20	10.80
" Nickel-plated "	"	12.00	15.00
Size .....	inches	3	3 1/2
Price, Finished....	per doz.	15.00	18.00
" Nickel-plated "	"	21.00	24.00
Size .....	inches	4	.....
Price, Finished....	per doz.	21.00	.....
" Nickel-plated "	"	27.00	.....

### WITH STRAIGHT VENT COUPLING



J-3614

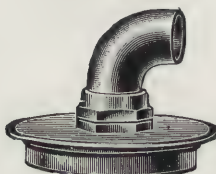
#### FINISHED—PER DOZEN

Size .....	inches	3	3 1/2
Price, with 1 1/4-in. Coup...		19.80	24.00
" " 1 1/2 " " ...		21.00	25.20
" " 2 " " ...		23.40	27.00
Size .....	inches	4	5
Price, with 1 1/4-in. Coup...		27.00	34.80
" " 1 1/2 " " ...		28.20	36.00
" " 2 " " ...		30.00	37.80

#### NICKEL-PLATED—PER DOZEN

Size .....	inches	3	3 1/2
Price, with 1 1/4-in. Coup...		27.00	32.40
" " 1 1/2 " " ...		28.80	33.60
" " 2 " " ...		30.60	35.40
Size .....	inches	4	5
Price, with 1 1/4-in. Coup...		36.60	49.20
" " 1 1/2 " " ...		38.40	50.40
" " 2 " " ...		40.20	52.80

### WITH FLANGE AND BENT VENT COUPLING



J-3616

#### FINISHED—PER DOZEN

Size .....	inches	3	3 1/2
Price, with 1 1/4-in. Coup...		21.60	25.80
" " 1 1/2 " " ...		23.40	27.00
" " 2 " " ...		25.20	29.40
Size .....	inches	4	5
Price, with 1 1/4-in. Coup...		28.80	36.00
" " 1 1/2 " " ...		30.00	37.80
" " 2 " " ...		32.40	39.60

#### NICKEL-PLATED—PER DOZEN

Size .....	inches	3	3 1/2
Price, with 1 1/4-in. Coup...		29.40	34.20
" " 1 1/2 " " ...		30.60	35.40
" " 2 " " ...		32.40	37.80
Size .....	inches	4	5
Price, with 1 1/4-in. Coup...		38.40	51.00
" " 1 1/2 " " ...		40.20	52.80
" " 2 " " ...		42.00	54.60

## BRASS AND IRON FERRULES AND CLEANOUTS

### BRASS FERRULES SHORT PATTERN



J-3618

#### FOR STANDARD PIPE

Size In.	PRICE, PER DOZ.		Size In.	PRICE, PER DOZ.	
	Stand- ard Weight	Heavy Weight		Stand- ard Weight	Heavy Weight
2	9.00	10.80	4	18.60	22.20
3	15.60	18.00	..	.....	.....

#### FOR EXTRA HEAVY PIPE

2	11.40	13.20	4	24.00	27.60
3	19.80	22.20	..	.....	.....

### BRASS OFFSET REDUCING FERRULES SHORT PATTERN



J-3620

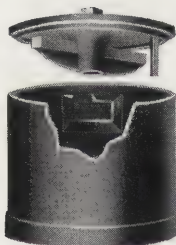
#### FOR STANDARD PIPE

Size In.	PRICE, PER DOZ.		Size In.	PRICE, PER DOZ.	
	Stand- ard Weight	Heavy Weight		Stand- ard Weight	Heavy Weight
2x1 1/4	8.40	10.20	2x1 1/2	8.40	10.20
2x1 1/4	10.80	12.60	2x1 1/2	10.80	12.60

#### FOR EXTRA HEAVY PIPE

2x1 1/4	10.80	12.60	2x1 1/2	10.80	12.60
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### BLAKE CLEANOUTS WITH SO-EASY-TO-REMOVE COVER



J-3626

Size .....	inches	2	3	4	5	6
Price, with Iron Cover .....	each	.70	.90	1.10	1.90	2.50
" " Brass " .....	"	1.10	1.40	1.70	3.40	4.00

### BRASS FERRULES

#### LONG PATTERN



J-3622

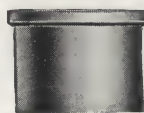
#### STRAIGHT, FOR STANDARD PIPE

Size In.	PRICE, PER DOZ.		Size In.	PRICE, PER DOZ.	
	Stand- ard Weight	Heavy Weight		Stand- ard Weight	Heavy Weight
2	11.40	13.20	5	61.20	61.20
3	19.80	22.20	6	68.40	68.40
4	24.00	27.60	..	.....	.....

#### TAPER, FOR EXTRA HEAVY PIPE

2	13.80	15.60	5	70.20	70.20
3	24.00	26.40	6	77.40	77.40
4	29.40	33.00	..	.....	.....

### IRON DRIVE FERRULES



J-3624

Size Inches	Price Each	Size Inches	Price Each
2	.20	4	.40
3	.30	..	...

Size Inches	PRICE, PER		DOZEN—	
	FOR STANDARD PIPE		FOR EXTRA HEAVY PIPE	
	Stand- ard Weight	Heavy Weight	Stand- ard Weight	Heavy Weight
2	10.80	11.40	12.00	12.60
3	16.80	18.00	19.20	20.40
4	21.00	21.60	22.20	22.80



## RUBBER SUNDRIES

### BATH AND BASIN WASHERS

#### SLIP JOINT WASHERS



J-3678

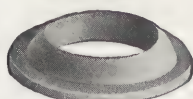
Size Inches	Price per Doz.	Size Inches	Price per Doz.
$\frac{3}{8}$	.50	$1\frac{1}{4}$	1.00
$\frac{1}{2}$	.50	$1\frac{1}{2}$	1.10
$\frac{3}{4}$	.60	2	1.20
1	.75	..	....

#### Bath Plug Washer



J-3690

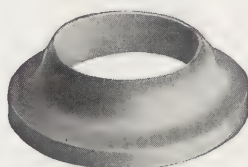
#### Basin Gasket



J-3692

Price, Bath Plug Washers per doz. 1.00  
 " Basin Gaskets..... " .85

#### SINK GASKET

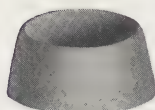


J-3694

Price, Sink Gaskets.....per doz. 1.50

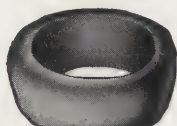
#### BASIN WASTE WASHERS

##### Unique



J-3680

##### Regular



J-3682

Size Inches	PRICE, PER DOZEN	
	Unique	Regular
1	2.00	2.00
$1\frac{1}{4}$	2.50	3.00
$1\frac{1}{2}$	3.00	3.50

#### BATH WASTE WASHERS

##### No. 1



J-3684

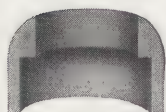
##### No. 2



J-3686

No.	Size Inches	Price per Dozen
1	1	2.50
2	$1\frac{1}{4}$	3.00

##### No. 3



J-3688

Size Inches	Price per Dozen
1	3.50
$1\frac{1}{4}$	4.00
$1\frac{1}{2}$	4.50
$1\frac{5}{8}$	6.00

#### OBLONG BUMPERS



J-3696

No.	Length Inches	Width Inches	Price per 100
1	$1\frac{5}{8}$	$\frac{1}{2}$	6.00
2	$2\frac{1}{8}$	$\frac{1}{2}$	7.00
3	$2\frac{1}{2}$	$\frac{1}{2}$	8.00

#### TACK AND SCREW BUMPERS

##### Tack



J-3698

##### Screw



J-3700

Diameter Inches	PRICE, PER DOZEN	
	Tack	Screw
$\frac{3}{8}$	.10	....
$\frac{1}{2}$	.15	....
$\frac{5}{8}$	.20	....
$\frac{3}{4}$	.30	.60
$\frac{7}{8}$	...	.70
1	...	1.00

## RUBBER SUNDRIES

### BLUNT EDGE SYPHON VALVE WASHERS



J-3702

High grade soft flexible stock, and carefully packed to prevent edges from curling.

Size Inches	Price per Doz.	Size Inches	Price per Doz.
1	1.50	1 5/8	2.40
1 1/8	1.60	1 3/4	2.50
1 1/4	1.70	1 7/8	2.60
1 3/8	1.90	2	2.70
1 1/2	2.00	...	....

Packed 2 dozen in a box.

### FEATHER EDGE SYPHON VALVE WASHERS



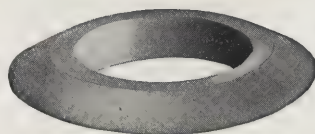
J-3708

High grade soft flexible stock, and carefully packed to prevent edges from curling.

Size Inches	Price per Doz.	Size Inches	Price per Doz.
1	1.50	1 5/8	2.40
1 1/8	1.60	1 3/4	2.50
1 1/4	1.70	1 7/8	2.60
1 3/8	1.90	2	2.70
1 1/2	2.00	...	....

Packed 2 dozen in a box.

### BEVELED SYPHON RINGS

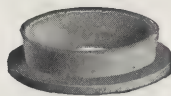


J-3704

Size Inches	Price per Doz.	Size Inches	Price per Doz.
1	1.40	1 3/4	2.60
1 1/4	1.50	2	3.00
1 1/2	2.00	...	....

Packed 25 in box.

### CLOSET SPUD WASHERS



J-3710

Size Inches	Price per Doz.	Size Inches	Price per Doz.
1 1/4	2.50	2	3.50
1 1/2	3.00	...	....

### FLOOR FLANGE GASKETS



J-3712

Size.....inches	4 1/8	4 1/4
Price.....per dozen	3.60	4.00

Packed 1 dozen in a box.

### BEVELED WASTE AND OVERFLOW WASHERS



J-3705

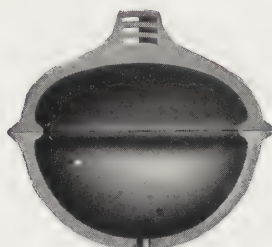
Price.....per dozen **1.20**

## RUBBER SUNDRIES

### WHITE TANK BALLS



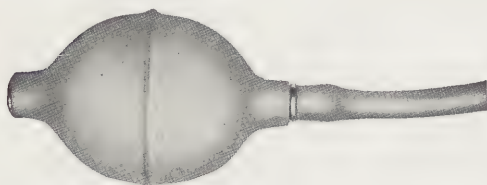
J-3714



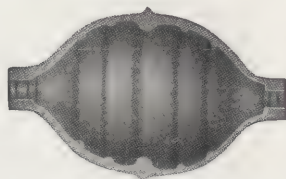
These balls have a hard top which prevents them from swelling and elongating. The bottom is soft and pliable so as to make a ready and secure seat on the valve seat.

Size .....	inches	2	2 $\frac{1}{2}$	2 $\frac{5}{8}$	2 $\frac{3}{4}$	3
Price.....	per dozen	6.00	7.00	8.10	9.20	10.80

### FURNACE BULB



J-3716



J-3716

These bulbs are constructed by a two-piece method with a good quality of rubber. They will not check or crack.

Price, Large, White Rubber.....	per dozen	6.00
" Tube Only .....	"	1.20

### BASIN AND BATH STOPPERS



J-3718



### SUCTION STOPPERS



J-3720

### BASIN AND BATH STOPPERS

Size .....	inches	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	2
Price.....	per dozen	1.44	1.44	1.44	1.56	1.80	2.28	3.24

### BASIN AND BATH SUCTION STOPPERS

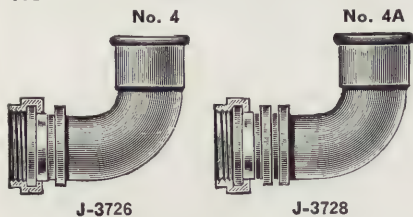
Size .....	inches	2	2 $\frac{1}{2}$
Price.....	per dozen	3.00	4.50

### SINK SUCTION STOPPERS

Size .....	inches	4
Price.....	per dozen	4.00

## RUBBER SUNDRIES, ETC.

### RUBBER CLOSET CONNECTIONS



J-3726

J-3728

No. 4

No. 4A

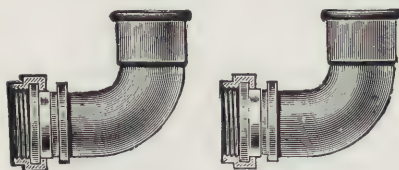
For 1¼-inch Flush Pipe.  
Price, 4 Inches Long...per dozen 10.00

No. 4A

For 1¼-inch Flush Pipe.  
Price, 5 Inches Long...per dozen 11.00

No. 6A

No. 6AA



J-3730

J-3732

No. 6A

For 2-inch vent, to slip over 1½-inch lead pipe.

Price.....per dozen 15.00

No. 6AA

For 1½-inch syphon supply.  
Price.....per dozen 15.00

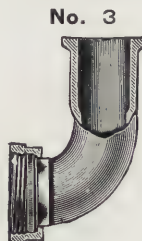
### SOLARINE METAL POLISH



J-3734

Price	½-pint Cans.....per can	.25
"	1 " " " " " "	.45
"	1-quart " " " " " "	.80
"	1-gallon " " " " " "	2.50

### RUBBER CLOSET CONNECTIONS

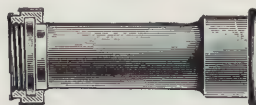


J-3736

No. 3

For 1¼-inch Flush.  
Price.....per dozen 8.25

No. 8



J-3738

For 2-inch vent, to slip over 2-inch iron or lead pipe.

Price.....per dozen 14.00

### WHITO ENAMEL CLEANER



J-3740

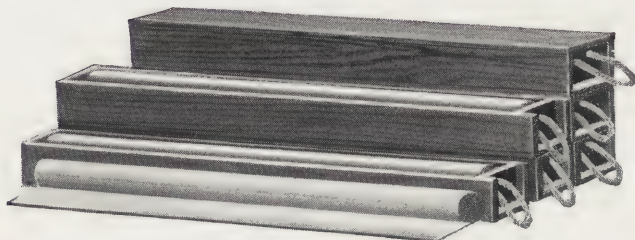
A preparation for cleaning porcelain and enameled ware. Cleans as readily as scouring and gritty compounds but without injurious effects to glazed surfaces.

Price, 1-pound Packages.....each ...



## SHEET LEAD, SOLDER, ETC.

### SHEET LEAD



J-3782

Weight per Square Foot Pounds	APPROXIMATE THICKNESS			AVERAGE SIZE OF SHEET. FEET		Average Weight per Roll Pounds
	Decimals Inches	Nearest Fraction Inches	Birmingham Gauge Number	Width	Length	
1½	.0255	$\frac{3}{128}$	23	7	20	210
2	.0340	$\frac{1}{32}$	20	7	20	280
2½	.0425	$\frac{5}{128}$	19	7	20	350
3	.049	$\frac{3}{64}$	18	7	20	420
3½	.0595	$\frac{7}{128}$	17	7	20	490
4	.0680	$\frac{1}{16}$	16	7	20	560
5	.0850	$\frac{5}{64}$	14	7	20	700
6	.095	$\frac{3}{32}$	13	7	20	840
7	.109	$\frac{7}{64}$	12	7	20	980
8	.125	$\frac{1}{8}$	11	7	20	1120

Pig Lead



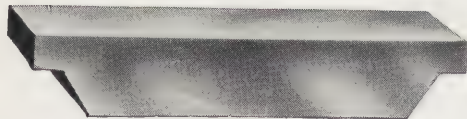
J-3784

Bar Lead



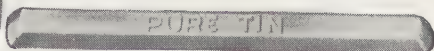
J-3786

Pig Tin



J-3788

Bar Tin



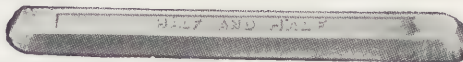
J-3790

Wiping Solder



J-3792

Half and Half Solder



J-3794

PRICES AT MARKET RATES

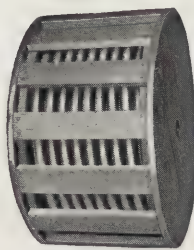
# LEAD AND BLOCK TIN PIPE LEAD PIPE

IN COILS, STRAWED



J-3796

ON REELS



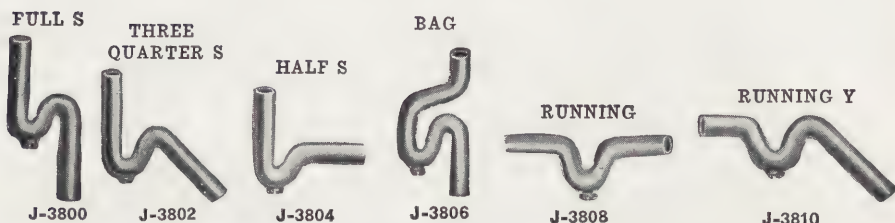
J-3798

Inside Caliber Inches	AQUEDUCT			EXTRA LIGHT			LIGHT			MEDIUM			STRONG			EXTRA STRONG			DOUBLE EX. STRONG		
	WEIGHT PER FOOT		Average Length of Coil, Feet	WEIGHT PER FOOT		Average Length of Coil, Feet	WEIGHT PER FOOT		Average Length of Coil, Feet	WEIGHT PER FOOT		Average Length of Coil, Feet	WEIGHT PER FOOT		Average Length of Coil, Feet	WEIGHT PER FOOT		Average Length of Coil, Feet	WEIGHT PER FOOT		Average Length of Coil, Feet
	Pounds	Ounces		Pounds	Ounces		Pounds	Ounces		Pounds	Ounces		Pounds	Ounces		Pounds	Ounces		Pounds	Ounces	
3/8	...	8	175	...	9	155	...	12	235	1	...	175	1	8	120	2	...	90	2	10	...
1/2	...	10	140	...	12	235	1	...	175	1	4	140	1	12	115	2	8	70	3	...	60
5/8	...	12	100	1	4	140	1	12	100	2	...	85	2	8	80	3	...	58	3	8	50
3/4	...	...	85	1	8	115	2	...	85	2	4	75	3	...	67	3	8	48	4	...	44
7/8	1	1	8	2	...	85	2	8	40	3	...	58	3	8	48	...	...	...	...	...	...
1	1	8	55	2	...	85	2	8	70	3	4	53	4	...	50	4	12	35	5	8	30
1 1/4	2	...	50	2	8	70	3	...	55	3	12	48	4	12	35	6	...	28	6	12	24
1 1/2	3	...	34	3	8	42	4	...	40	5	...	32	6	...	36	7	8	20	9	...	17
1 3/4	3	...	...	3	12	40	4	8	35	5	8	28	6	8	23	8	...	20	...	...	...
2	3	...	11	4	...	40	5	...	30	7	...	22	8	...	18	9	...	16	10	8	15
2 1/2	4	...	12	...	...	...	6	...	12	8	...	12	11	...	12	14	...	12	17	...	12
3	4	...	12	4	12	12	6	3	12	9	...	12	12	...	12	16	...	12	20	...	12
3 1/2	...	...	...	5	...	12	...	...	...	...	...	...	15	...	12	18	...	12	...	...	...
4	5	...	12	6	...	12	8	...	12	10	...	12	16	...	12	21	...	12	25	...	12
4 1/2	6	...	12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

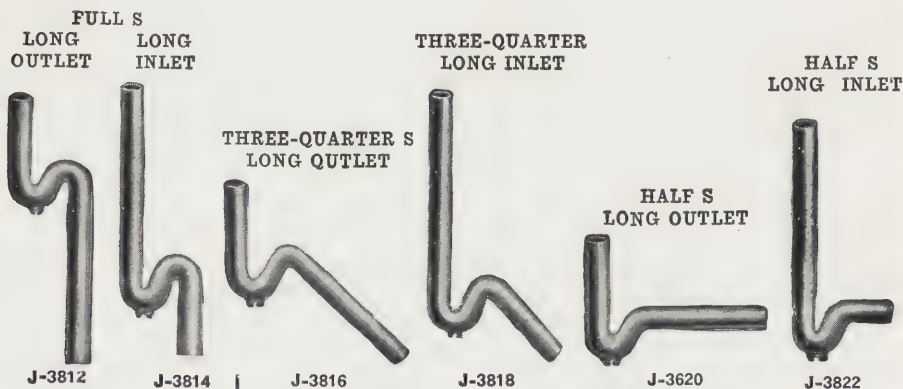
## BLOCK TIN PIPE

I. D. In.	O. D. In.	Wt. per Ft. Oz.	I. D. In.	O. D. In.	Wt. per Ft. Oz.	I. D. In.	O. D. In.	Wt. per Ft. Oz.	I. D. In.	O. D. In.	Wt. per Ft. Oz.	I. D. In.	O. D. In.	Wt. per Ft. Oz.
1/8	3/16	1	1/4	7/16	5	3/8	5/8	6	1/2	3/4	10	1	1 1/4	12
1/8	1/4	1 1/4	1/4	3/4	8	3/8	3/4	8	1 1/2	1 1/2	12 1/2	1	1 1/4	15
1/8	3/8	2 2/3	1/4	1 1/2	8	3/8	1 1/4	9 2/3	2	2	3	1	1 3/4	16
1/8	5/16	3 1/3	5/16	3/8	12 2/3	3/8	1 1/2	12 1/2	3	3 1/2	6 1/2	1	1 7/8	20
3/16	1/4	1	5/16	1/2	3 2/3	1/2	1 1/2	23 1/2	5	5 1/2	9	1	1 3/4	24
3/16	3/8	1 1/4	5/16	3/4	5 2/3	1/2	1 1/2	51 3/4	5	5 1/2	10	1 1/4	1 3/4	16
3/16	5/8	2 1/2	5/16	1 1/2	5 2/3	1/2	1 1/2	72 3/4	5	5 1/2	12	1 1/4	1 3/4	22
3/16	3/8	4 1/2	5/16	1 1/2	8	1/2	1 1/2	10 1/8	5	5 1/2	12	1 1/4	1 3/4	28
3/16	25/64	5	5/16	1 1/2	9	1/2	1 1/2	3	5	5 1/2	16	1 1/2	1 3/4	24
3/16	9/16	6	5/16	1 1/2	2	1/2	1 1/2	4	5	5 1/2	8	2	2 3/8	32
1/4	3/2	3 3/4	3/8	1 1/2	4	1/2	1 1/2	5	5	5 1/2	9	...	...	...
1/4	5/8	11 1/2	3/8	1 1/2	5	1/2	1 1/2	5 1/2	5	5 1/2	12	...	...	...
1/4	3/8	31 1/6	3/8	1 1/2	5 1/2	1/2	1 1/2	6	5	5 1/2	16	...	...	...
1/4	1 1/2	4	3/8	1 1/2	7 1/3	1/2	1 1/2	8	5	5 1/2	20	...	...	...

## LEAD TRAPS



Description	STANDARD					SPECIAL (Medium)			EXTRA HEAVY				
Weight, per ft. pounds	1½	2¼	3¼	5	6	2	3	4	2½	3½	4½	6	8
Size, inches	1¼	1½	2	3	4	1¼	1½	2	1¼	1½	2	3	4
Price, Full S.....each	.58	.90	1.38	2.69	3.25	.73	1.03	1.65	.87	1.25	1.85	3.09	4.30
“ ¾ S.....“	.55	.81	1.30	2.62	3.07	.66	.94	1.53	.81	1.15	1.73	2.97	3.95
“ ½ S.....“	.51	.75	1.20	2.24	2.49	.64	.87	1.42	.77	1.09	1.57	2.58	3.25
“ Bag.....“	.68	1.08	1.73	3.35	4.77	.87	1.28	2.08	1.06	1.54	2.33	3.96	6.30
“ Running....“	.48	.72	1.13	2.09	2.53	.58	.87	1.32	.70	1.03	1.46	2.35	3.28
“ “ Y.. “	.52	.76	1.34	2.46	3.15	.65	.94	1.45	.74	1.09	1.61	2.88	4.05



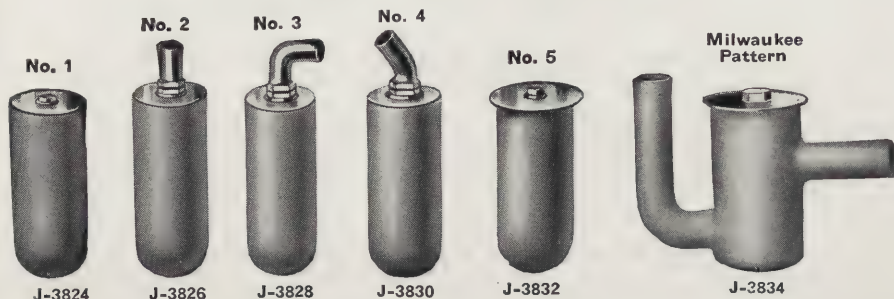
Description	STANDARD			SPECIAL (MEDIUM)			EXTRA HEAVY		
Weight, per foot pounds	1½	2¼	3¼	2	3	4	2½	3½	4½
Size, inches	1¼	1½	2	1¼	1½	2	1¼	1½	2
Full S, Long Inlet or Outlet, each	.93	1.36	2.00	1.19	1.64	2.40	1.44	1.95	2.69
¾ S, “ “ “ “ “	.85	1.19	1.76	1.04	1.43	2.08	1.28	1.72	2.33
½ S, “ “ “ “ “	.76	1.02	1.55	.95	1.22	1.83	1.14	1.50	2.02
Bag “ “ “ “ “	1.09	1.58	2.34	1.38	1.91	2.80	1.67	2.24	3.11
Running.....“	.82	1.15	1.67	1.01	1.41	1.98	1.23	1.65	2.18
“ Y.....“	.83	1.15	1.82	1.05	1.45	2.01	1.23	1.52	2.23



# LEAD TRAPS

## LEAD DRUM TRAPS

WITH BRASS TRAP SCREWS, ORDINARY FINISH



No. ....	STANDARD					PRICE, EACH					EXTRA HEAVY				
	1	2	3 and 4	5		1	2	3 and 4	5		1	2	3 and 4	5	
Diam., Cap. in.	4 1/8	4 1/8	4 1/8	4 1/2	4 1/8	4 1/8	4 1/8	4 1/8	4 1/2	4 1/8	4 1/8	4 1/8	4 1/8	4 1/2	4 1/8
4x 8 in.	1.90	2.60	3.00	2.00	2.05	2.75	3.15	2.15	2.40	3.10	3.50	2.50	2.60	2.60	2.60
4x 9 "	2.02	2.72	3.12	2.12	2.18	2.88	3.28	2.28	2.50	3.20	3.60	2.73	2.85	2.85	2.85
4x10 "	2.10	2.80	3.20	2.20	2.27	2.97	3.37	2.37	2.63	3.33	3.73	2.73	2.85	2.85	2.85
4x11 "	2.18	2.88	3.28	2.28	2.37	3.07	3.47	2.47	2.75	3.45	3.85	2.85	3.00	3.00	3.00
4x12 "	2.25	2.95	3.35	2.35	2.45	3.15	3.55	2.55	2.90	3.60	4.00	3.40	3.50	3.50	3.50
4x14 "	2.55	3.25	3.65	2.65	2.75	3.45	3.85	2.85	3.30	4.00	4.40	3.40	3.50	3.50	3.50
5x10 "	3.00	3.70	4.10	3.10	....	....	....	....	3.40	4.10	4.50	3.50	3.65	3.65	3.65
5x11 "	3.15	3.85	4.25	3.25	....	....	....	....	3.55	4.25	4.65	3.65	3.80	3.80	3.80
5x12 "	3.30	4.00	4.40	3.40	....	....	....	....	3.70	4.40	4.80	3.80	4.25	4.25	4.25
6x10 "	3.55	4.25	4.65	3.65	....	....	....	....	4.15	4.85	5.25	4.25	4.45	4.45	4.45
6x11 "	3.75	4.45	4.85	3.85	....	....	....	....	4.35	5.05	5.45	4.45	4.60	4.60	4.60
6x12 "	3.90	4.60	5.00	4.00	....	....	....	....	4.60	5.30	5.70	4.70			

### EXTRAS

Number.....	1	2	3 and 4	5
Price, Extra for Polished or Nickel-plated Trap Screws.....each	.20	.30	.30	.20
Price, Trap Screws only, Ordinary Finish....."	1.00	1.70	2.10	1.10
" " " " Nickel-plated....."	1.20	2.00	2.40	1.30

### MILWAUKEE PATTERN LEAD DRUM TRAPS WITH INLET AND OUTLET CONNECTIONS

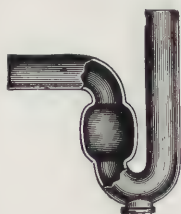
Extra heavy lead drum trap, 4x9 inches with 1 1/2-inch lead inlet and horizontal outlet connection, 4 inches long, fitted with extra heavy, nickel-plated brass extension cover.

Price.....each

Full View

Cross Section

### ULCO NON-SYPHON LEAD TRAPS



Style	PRICE, EACH					
	STANDARD			EXTRA HEAVY		
Wt. per Running Ft. ....	1 1/2	2 1/4	3 1/4	2 1/2	3 1/2	4 1/2
Size.....inches	1 1/4	1 1/2	2	1 1/4	1 1/2	2
Full S.....	1.95	2.25	3.10	2.25	2.60	3.55
3/4 S.....	1.90	2.20	3.00	2.20	2.50	3.45
P or Running.....	1.85	2.10	2.90	2.15	2.45	3.30
Full S Long Inlet or Outlet	2.30	2.70	3.70	2.80	3.30	4.40
3/4 " " " "	2.20	2.55	3.50	2.65	3.10	4.05
P " " " "	2.10	2.40	3.25	2.50	2.90	3.75

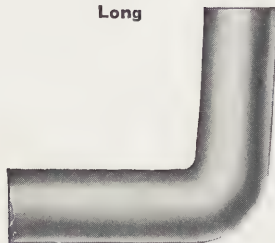


J-3836

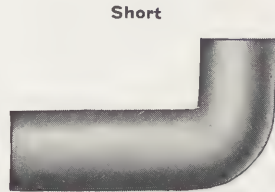


## LEAD BENDS

### REGULAR



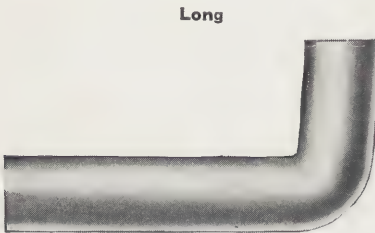
J-3838



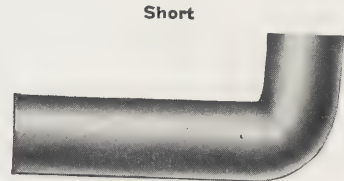
J-3840

Description.....	STANDARD					SPECIAL-MEDIUM			EXTRA HEAVY				
Weight, per Foot, pounds	1½	2¼	3¼	5	6	2	3	4	2½	3½	4½	6	8
Size.....inches	1¼	1½	2	3	4	1¼	1½	2	1¼	1½	2	3	4
Price, Long.....each	.30	.50	.78	1.39	1.95	.41	.66	1.00	.50	.79	1.05	1.60	2.40
“ Short..... “	.25	.38	.57	1.09	1.50	.31	.51	.69	.34	.62	.80	1.21	1.84

### EXTENSION



J-3842



J-3844

Description.....	STANDARD					SPECIAL-MEDIUM			EXTRA HEAVY				
Wt., per Ft., pounds	1½	2¼	3¼	5	6	2	3	4	2½	3½	4½	6	8
Size.....inches	1¼	1½	2	3	4	1¼	1½	2	1¼	1½	2	3	4
Long Inlet, 12-in. Outlet, ea.	.46	.67	.99	1.73	2.15	.60	.89	1.24	.70	1.07	1.35	1.96	2.62
“ “ 15 “ “ “	.54	.77	1.14	1.99	2.44	.70	1.03	1.42	.82	1.24	1.56	2.25	2.98
“ “ 18 “ “ “	.62	.88	1.29	2.24	2.73	.80	1.17	1.61	.94	1.41	1.76	2.54	3.34
“ “ 20 “ “ “	.67	.95	1.39	2.42	2.92	.87	1.26	1.74	1.02	1.52	1.90	2.74	3.58
Short “ 12 “ “ “	.40	.56	.79	1.39	1.70	.52	.75	.99	.60	.90	1.08	1.57	2.09
“ “ 15 “ “ “	.47	.67	.94	1.65	2.00	.62	.89	1.17	.72	1.07	1.28	1.87	2.45
“ “ 18 “ “ “	.55	.77	1.09	1.90	2.30	.72	1.03	1.36	.84	1.24	1.49	2.16	2.81
“ “ 20 “ “ “	.60	.84	1.19	2.07	2.48	.79	1.12	1.49	.92	1.35	1.63	2.35	3.04

### EXTRAS ON LONG AND SHORT EXTENDED BENDS

Description.....	STANDARD					SPECIAL-MEDIUM			EXTRA HEAVY				
Size.....inches	1¼	1½	2	3	4	1¼	1½	2	1¼	1½	2	3	4
Price for Each Inch of Excess Length over Listed Sizes, add to List of Nearest Listed Size.	.03¼	.04½	.06¼	.10¾	.12	.04¼	.06	.07¾	.05	.07	.08½	.12	.15

Short inlet-ends are the same dimensions as inlets on short bends of corresponding size. Long inlet ends are the same as on long bends.

# COMBINATION FERRULES, ETC. COMBINATION FERRULES



J-3846

## STANDARD

Length.....inches	4	4½	5	6	8	10	12
Price, 1½-inch, for 2-inch Cast Iron Pipe, each	....	.28	.36	.43	.51	.60	.67
" 1½ " " 2 " " " " "	....	.28	.36	.43	.51	.60	.67
" 2 " " 2 " " " " "	.28	....	.41	.46	.57	.67	.76
" 3 " " 3 " " " " "	.42	....	.60	.67	.82	.98	1.10
" 4 " " 4 " " " " "	.50	....	.72	.85	1.02	1.25	1.40

Length.....inches	14	16	18	20	24	30	36
Price, 1½-inch, for 2-inch Cast Iron Pipe, each	.80	.90	1.00	1.10	1.30	....	....
" 2 " " 2 " " " " "	.80	.86	.92	1.00	1.15	1.40	1.65
" 3 " " 3 " " " " "	1.15	1.22	1.30	1.40	1.60	2.00	2.30
" 4 " " 4 " " " " "	1.60	1.73	1.85	2.10	2.30	2.75	3.25

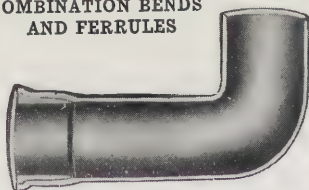
## EXTRA HEAVY

Length.....inches	4	4½	5	6	8	10	12
Price, 1½-inch, for 2-inch Cast Iron Pipe, each	....	.38	.44	.52	.61	.72	.80
" 2 " " 2 " " " " "	.42	....	.49	.54	.67	.81	.93
" 3 " " 3 " " " " "	.55	....	.75	.84	1.00	1.18	1.35
" 4 " " 4 " " " " "	.70	....	.84	.94	1.23	1.45	1.67

Length.....inches	14	16	18	20	24	30	36
Price, 1½-inch, for 2-inch Cast Iron Pipe, each	1.15	1.30	1.45	1.60	1.90	....	....
" 2 " " 2 " " " " "	1.10	1.23	1.36	1.49	1.75	2.20	2.60
" 3 " " 3 " " " " "	1.46	1.63	1.80	1.97	2.33	2.90	3.40
" 4 " " 4 " " " " "	2.00	2.21	2.45	2.70	3.16	3.76	4.36

Size.....inches	2	3	4
For Brass Thimbles, add to list.....each	.25	.50	.75

## COMBINATION BENDS AND FERRULES



J-3848

## STANDARD

Length.....inches	12	13	14	15	16	17	18	19	20
Price, 4-inch, Short Inlet, (5½ inches), each	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00
" 4 " Long " (9¾ " ) " "	2.65	2.75	2.85	2.94	3.04	3.14	3.23	3.33	3.42

## EXTRA HEAVY

Length.....inches	12	13	14	15	16	17	18	19	20
Price, 4-inch, Short Inlet, (5½ inches), each	2.59	2.71	2.83	2.95	3.07	3.19	3.31	3.43	3.54
" 4 " Long " (9¾ " ) " "	3.12	3.24	3.36	3.48	3.60	3.72	3.84	3.96	4.08

# COMBINATION SOLDERING NIPPLES

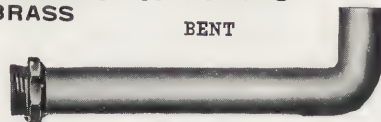
STRAIGHT

LEAD AND BRASS

BENT



J-3850



J-3852

## STRAIGHT, STANDARD

Length.....inches	4	5	6	8	10	12	14
Price, 1 $\frac{1}{4}$ -inch, for 1 $\frac{1}{4}$ -inch Iron Pipe.....each	.39	.42	.44	.52	.58	.63	.73
" 1 $\frac{1}{2}$ " " 1 $\frac{1}{2}$ " " " "....."	.48	.55	.60	.66	.74	.80	.93
" 2 " " 2 " " " "....."	.72	.81	.86	.96	1.08	1.17	1.37
" 3 " " 3 " " " "....."	1.26	1.43	1.50	1.67	1.86	2.00	2.27
" 4 " " 4 " " " "....."	1.63	1.84	1.95	2.13	2.36	2.53	2.93

Length.....inches	16	18	20	24	30	36	....
Price, 1 $\frac{1}{4}$ -inch, for 1 $\frac{1}{4}$ -inch Iron Pipe.....each	.78	.83	.90	1.00	1.20	1.30	....
" 1 $\frac{1}{2}$ " " 1 $\frac{1}{2}$ " " " "....."	1.00	1.07	1.15	1.30	1.48	1.65	....
" 2 " " 2 " " " "....."	1.47	1.56	1.68	1.87	2.27	2.58	....
" 3 " " 3 " " " "....."	2.41	2.56	2.70	3.00	3.53	4.00	....
" 4 " " 4 " " " "....."	3.10	3.27	3.45	3.80	4.35	4.92	....

## STRAIGHT, EXTRA HEAVY

Length.....inches	4	5	6	8	10	12	14
Price, 1 $\frac{1}{4}$ -inch, for 1 $\frac{1}{4}$ -inch Iron Pipe.....each	.41	.45	.48	.56	.64	.71	.75
" 1 $\frac{1}{2}$ " " 1 $\frac{1}{2}$ " " " "....."	.51	.56	.60	.71	.82	.92	1.04
" 2 " " 2 " " " "....."	.79	.85	.90	1.04	1.18	1.31	1.47
" 4 " " 4 " " " "....."	1.70	1.95	2.15	2.35	2.55	2.75	3.15

Length.....inches	16	18	20	24	30	36	....
Price, 1 $\frac{1}{4}$ -inch, for 1 $\frac{1}{4}$ -inch Iron Pipe.....each	.86	.93	1.00	1.15	1.37	1.60	....
" 1 $\frac{1}{2}$ " " 1 $\frac{1}{2}$ " " " "....."	1.14	1.24	1.34	1.55	1.85	2.15	....
" 2 " " 2 " " " "....."	1.60	1.72	1.85	2.12	2.52	2.92	....
" 4 " " 4 " " " "....."	3.35	3.55	3.75	4.25	4.75	5.70	....

## BENT, STANDARD

Length of Outlet.....inches	12 or less	13	14	15	16	17	18	19	20
Price, 1 $\frac{1}{4}$ -inch Long Inlet.....each	.85	.88	.92	.93	.96	1.00	1.01	1.04	1.06
" 1 $\frac{1}{2}$ " " " "....."	1.15	1.20	1.24	1.25	1.30	1.34	1.36	1.41	1.43
" 2 " " " "....."	1.71	1.77	1.84	1.86	1.92	1.99	2.01	2.07	2.11
" 3 " " " "....."	2.99	3.10	3.21	3.25	3.36	3.47	3.50	3.61	3.68
" 4 " " " "....."	3.78	3.90	4.02	4.07	4.19	4.31	4.36	4.48	4.55
" 1 $\frac{1}{4}$ " Short " "....."	.79	.82	.86	.86	.89	.93	.94	.97	.99
" 1 $\frac{1}{2}$ " " " "....."	1.04	1.09	1.13	1.15	1.20	1.24	1.25	1.30	1.32
" 2 " " " "....."	1.51	1.57	1.64	1.66	1.72	1.79	1.81	1.87	1.91
" 3 " " " "....."	2.65	2.76	2.87	2.91	3.02	3.13	3.16	3.27	3.33
" 4 " " " "....."	3.33	3.45	3.57	3.63	3.75	3.87	3.93	4.05	4.11

## BENT, EXTRA HEAVY

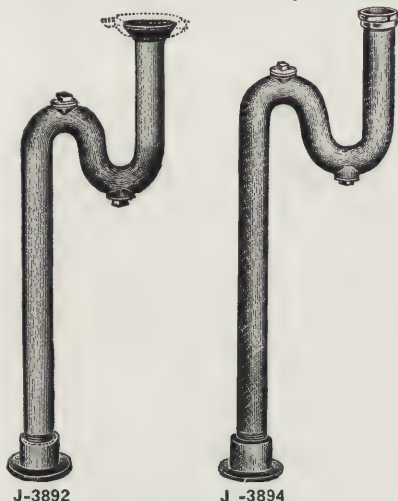
Length of Outlet.....inches	12 or less	13	14	15	16	17	18	19	20
Price, 1 $\frac{1}{4}$ -inch Long Inlet.....each	1.09	1.14	1.19	1.21	1.26	1.31	1.33	1.38	1.41
" 1 $\frac{1}{2}$ " " " "....."	1.55	1.62	1.69	1.72	1.79	1.86	1.89	1.96	2.00
" 2 " " " "....."	2.07	2.16	2.24	2.28	2.37	2.45	2.48	2.56	2.62
" 3 " " " "....."	3.22	3.34	3.46	3.51	3.63	3.75	3.80	3.92	4.00
" 4 " " " "....."	4.25	4.40	4.55	4.61	4.76	4.91	4.97	5.12	5.21
" 1 $\frac{1}{4}$ " Short " "....."	.99	1.04	1.09	1.11	1.16	1.21	1.23	1.28	1.31
" 1 $\frac{1}{2}$ " " " "....."	1.38	1.45	1.52	1.55	1.62	1.69	1.72	1.79	1.83
" 2 " " " "....."	1.80	1.89	1.97	2.00	2.09	2.17	2.21	2.30	2.35
" 3 " " " "....."	2.83	2.95	3.07	3.13	3.25	3.37	3.42	3.54	3.61
" 4 " " " "....."	3.72	3.87	4.02	4.08	4.23	4.38	4.44	4.59	4.67

## CAST IRON TRAPS

### S TRAPS

For Sink Collar

With Slip Joint Nut



J-3892

J-3894

#### FOR SINK COLLAR

Size .....	inches	1¼	1½
Price, Painted .....	each	1.50	2.00
" Galvanized or White Enamel Painted .....	each	2.25	2.90

#### WITH SLIP JOINT NUT

Size .....	inches	1¼	1½
Price, Painted .....	each	1.75	2.30
" Galvanized or White Enamel Painted .....	each	2.50	3.20

#### IRON PIPE THREAD INLET

Size .....	inches	1¼	1½
Price, Painted .....	each	1.50	2.00
" Galvanized or White Enamel Painted .....	each	2.25	2.90

### P TRAPS

#### FOR SINK COLLAR



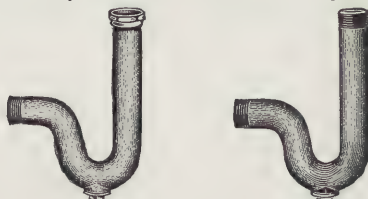
J-3896

Size .....	inches	1¼	1½
Price, Painted .....	each	.75	1.00
Price, Galvanized or White Enamel Painted .....	each	1.15	1.50

### P TRAPS

With Slip Joint Nut

With Iron Pipe Ends



J-3898

J-3900

#### WITH SLIP JOINT NUT

Size .....	inches	1¼	1½
Price, Painted .....	each	1.00	1.30
" Galvanized or White Enamel Painted .....	each	1.40	1.80

#### WITH IRON PIPE ENDS

Size .....	inches	1¼	1½
Price, Painted .....	each	.75	1.00
" Galvanized or White Enamel Painted .....	each	1.15	1.50

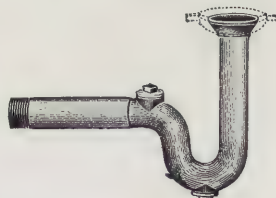
#### WITH FEMALE OUTLET



J-3902

Size .....	inches	1¼	1½
Price, Painted .....	each	.90	1.15
" Galvanized or White Enamel Painted .....	each	1.30	1.65

#### WITH LONG OUTLET AND DOUBLE CLEANOUT



J-3904

Size .....	inches	1¼	1½
Price, Painted .....	each	1.50	2.00
" Galvanized or White Enamel Painted .....	each	2.25	2.90

#### DOUBLE CLEANOUT PLUGS

Add to Single Cleanout List...each .35  
A regular lead pipe sink collar will slip over a 1¼-inch trap. A special size collar furnished for 1½-inch traps.



## CAST IRON TRAPS

## CAST IRON TRAPS

No. 54



No. 66



No.	Tapped Inches	Cleanout Inches	Body Inches	Price Each
54	1½	1½	3x8	.....
66	1½	1½	3x8	.....

No. 62



No. 68



No.	Tapped Inches	Cleanout Inches	Body Inches	Price Each
62	1½	1½	3x5	.....
68	1½	1½	3x5	.....

**FEMALE BOTH ENDS**

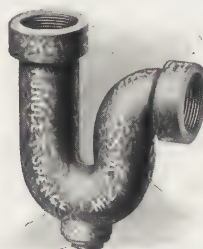


These traps have 2½-inch water seal.

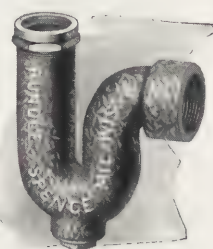
Price, 3-inch.....each	.....
4 " " " " " "	.....

## CAST IRON TRAPS

### With Female Inlet



**With Slip-joint Nut**

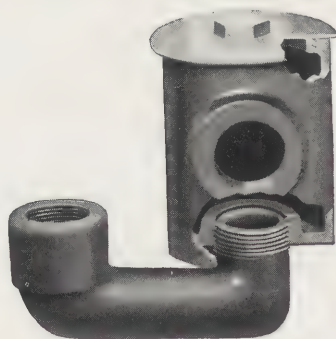


These traps have 2¼-inch water seal.

Size Inches	PRICE, EACH		
	Male Inlet	Female Inlet	Slip-joint Inlet
1 1/4	.....	.....	.....
1 1/2	.....	.....	.....
2	.....	.....	.....

Can be furnished black or galvanized.

## CAST IRON DRUM TRAPS WITH RETURN BENDS



The above cast iron drum trap with return bend measures 7½ inches over all in height and is tapped for 1½-inch iron pipe. The drum trap measures 4x5 inches.

Price.....each ....

# DIAMOND CAST IRON TRAPS

## STANDARD DRUM TRAPS

4x8½ AND 4x10



J-3922



J-3924



J-3926

Above traps are tapped regularly for 1½-inch iron pipe, but may be tapped for 2-inch iron pipe at the same price; 4 inches in diameter, either 8½ inches or 10 inches long, as listed below, see sectional cuts; traps can be furnished with openings in any desired position other than as shown above and additional openings can also be provided, in positions and sizes as may be specified, but sketch must be submitted with special orders of this kind.

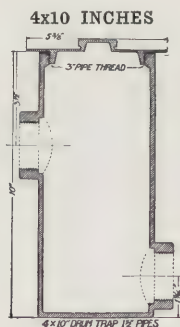
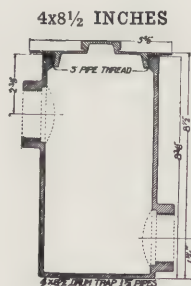
### J-3922 OR J-3924

Size.....	inches	4x8½	4x10
Price, Painted.....	each	2.50	2.75
" Galvanized.....	"	3.50	4.00

### J-3926

Price, Painted.....	each	2.75	3.00
" Galvanized.....	"	3.75	4.25
" Cover only, Nickel-plated Brass.....	"	1.25	1.25

## SECTIONAL



All the drum traps shown above have 5⅜-inch diameter, nickel-plated brass cover with projecting flange; covers are threaded for 3-inch iron pipe so that after roughing in, an ordinary 3-inch pipe plug may be substituted for the brass cover during the process of testing, etc., and the brass cover placed in position only when the work is completed.

## JOSAM FLOOR DRAINS

No. 203A U. S. GOVERNMENT  
TYPE DRAINS



J-3966

For shower, urinal and floor drains for floors of concrete, cement, tile, marble, or any composition construction. See page is carried back to drain pipe through the drainage holes therein, thereby comprising double drainage.

Brass strainer and collar screws into body of drain, and is adjustable to suit variation and thickness of floor. The body is of heavy cast iron.

Size Strainer In.	Outlet In.	Price Each	Size Strainer In.	Outlet In.	Price Each
4	1½	10.50	5	3	15.00
5	1½	11.50	6	3	16.00
4	2	12.00	6	4	19.00
5	2	12.00	7	4	21.00
6	1½	12.50	8	4	23.00
6	2	13.00	.	.	.....

No. 2003A U. S. GOVERNMENT  
TYPE DRAINS



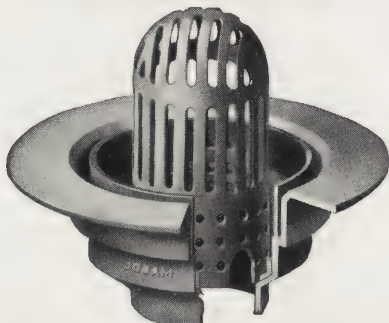
J-3968

This drain is of special shallow type and made for use in toilet room floors, shower compartments, dressing room floors, as well as in any floor of a shallow depth of floor construction, where drains are required.

Body and trap are cast iron.

Size Strainer Inches	Size Outlet Inches	Price Each
6	2	15.00
6	3	18.00

No. 400 AA DRAINS

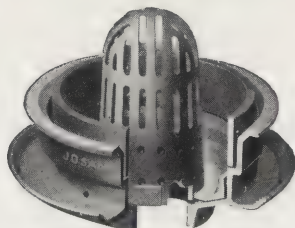


J-3970

For wood roof decks. Has positive means whereby roofing felts are joined to the drain by an expander ring which permanently holds the felt tightly against the inside of the body of the drain, rendering the use of flashing unnecessary and making a continuous roof surface into the drain body in such a manner that ample space is provided for the collection of sediment, etc.

Size Strainer In.	Price Each	Size Strainer In.	Price Each	Size Strainer In.	Price Each
2	14.00	4	14.00	6	18.00
3	14.00	5	16.00	8	26.00

No. 400-B DRAINS



J-3972

For concrete roof deck. Is constructed the same as the 400 Series with addition of positive means whereby roofing felts are joined to drain by an expander ring which permanently holds the felts tightly against the inside of a recess formed for that purpose, rendering use of flashing unnecessary.

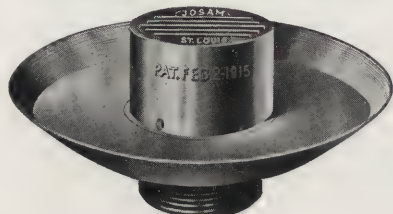
Has the Josam removable sediment cup and dome strainer and double drainage cupped flange.

Size Strainer In.	Price Each	Size Strainer In.	Price Each	Size Strainer In.	Price Each
2	13.00	4	13.00	6	17.00
3	13.00	5	15.00	8	24.00



## JOSAM FLOOR DRAINS

### No. 100 FLOOR OR SHOWER DRAINS

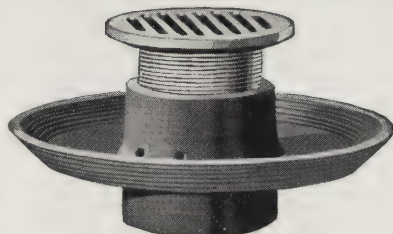


**J-3974**

To be used in all kinds of construction where no trap is required. All brass.

Size Strainer Inches	Size Outlet Inches	Price Each
2	2	6.50
3	2	7.00
3	3	8.00
4	3	9.50
5	4	11.00

### No. 300 URINAL OR SHOWER DRAINS



**J-3976**

Particularly adapted for floors constructed of marble, tile, cement, or any composition where the construction will not permit, or where it is not desirable to place trap in same. This drain outlet can be used and an independent trap placed wherever the construction will permit. It is a cast iron body and brass strainer.

Size Strainer Inches	Size Outlet Inches	Price Each
4	2	6.00
5	3	8.00
6	4	9.50

Strainers furnished concave, convex or flat, and same can be adjusted to suit variation of floor thickness.

Soil pipe connectors extra.

### No. 500 FLOOR DRAINS



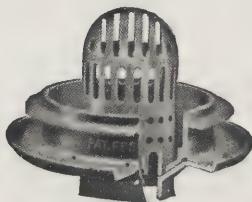
**J-3978**

Floor drain or cesspool, with anti-tilting strainer. Especially useful for dairy, laundry, warehouse or factory buildings, also for drain, on promenade roofs. All cast iron. Also brass grate if required, at additional price.

Size Strainer Inches	Size Outlet Inches	Price Each
8	4	6.00
11	5	8.50
11	6	9.00

Soil pipe connectors extra.

### No. 400 ROOF DRAINS



**J-3980**

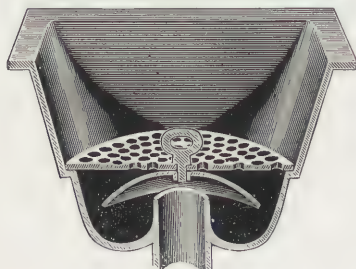
Roof drain with sediment cup. Having combined strainer and sediment cup, this drain can be used on concrete as well as wood construction flat roofs. Its advantages are: of catching all leakage which may occur between the drain and the construction, also of catching all tar, gravel or other sediment in strainer cup, which is detachable and easily removed. Tapped standard iron pipe thread. All cast iron.

Size Outlet in.	4	5	6	8
Price . . . each	12.00	14.00	16.00	20.00



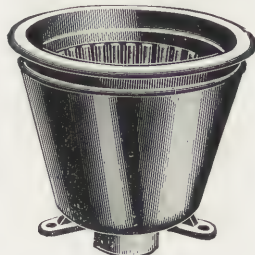
## SLOP SINKS, CESSPOOLS, ETC.

HARRIS SLOP SINK, WITH BELL TRAP



J-3982

BAYLEY SLOP HOPPER



J-3984

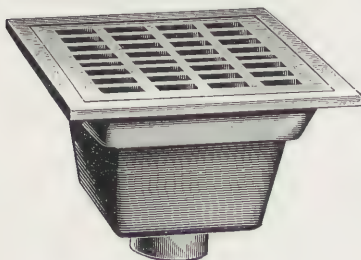
### HARRIS SLOP SINKS—2-INCH OUTLET

Size.....	inches	12x12	14x14	16x16
Price, Painted.....	each	2.00	2.25	2.50
" Galvanized.....	"	3.25	3.75	4.25

### BAYLEY SLOP HOPPERS

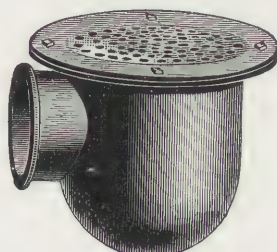
Price, Round or Square; Size at Top, 13 inches .....	each	3.50
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EXTRA HEAVY CESSPOOL  
WITH BELL TRAP AND GRATING



J-3986

WILLETT'S CESSPOOL



J-3988

### EXTRA HEAVY CESSPOOLS

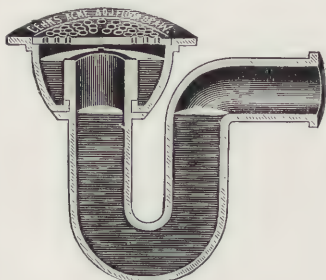
Size.....	inches	12x12x10	16x16x10	18x18x10
Price, Painted.....	each	3.75	4.50	10.00
" Galvanized.....	"	7.50	10.00	20.00

### WILLETT'S CESSPOOLS

Price, Painted, with 4-inch Outlet .....	each	3.00
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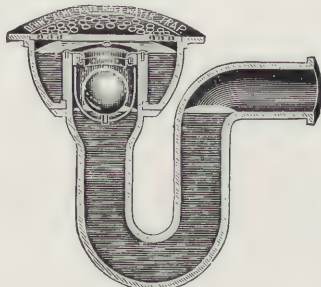
# DEHN'S ACME DEEP SEAL FLOOR DRAINS

No. 3



J-3990

No. 5



J-3992

ADJUSTABLE  
FLOOR DRAINS  
AND CELLAR  
TRAPS  
WITH CONTINUOUS  
PIPE TRAP  
PATENTED

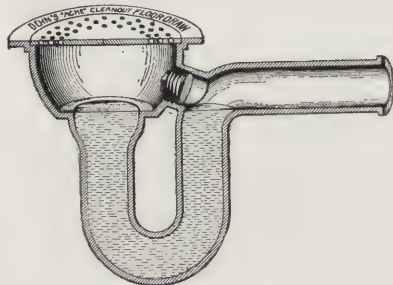
No. 3, PLAIN

Depth of Water Seal Inches	Size of Outlet Inches	Diameter of Top Inches	Depth Over All Inches	Length Over All Inches	Receiver above Outlet of Trap In.	Average Weight Pounds	Price, Each Iron Top and Strainer	Brass Top and Strainer	N. P. Brass Top and Strainer
4	2	8	10	12	2	20	2.50	7.50	9.50
4	3	9	13	14	2	30	5.00	11.00	13.00
4	4	12	15	21	2	50	8.00	16.00	19.00

No. 5, WITH AUTOMATIC BACK WATER VALVE

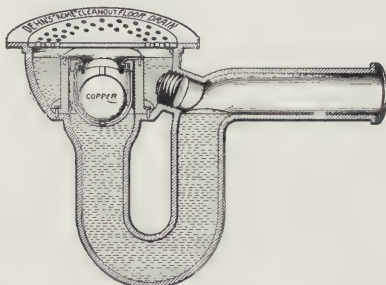
4	2	9	11	13	2	25	7.00	13.00	15.00
4	3	9	13	14	2	35	9.00	16.00	18.00
4	4	12	15	21	2	60	12.00	20.00	23.00

No. 8



J-3994

No. 9



J-3996

Provided with brass taper-threaded clean-out plug and seamless metal ball float. Prevents flooding of cellars and can be easily removed with cage.

No. 8, WITHOUT BACK WATER VALVE

Depth of Water Seal Inches	Size of Outlet Inches	Diameter of Top Inches	Depth Over All Inches	Length Over All Inches	Receiver above Outlet of Trap In.	Average Weight Pounds	Price Each Iron Top and Strainer	Brass Top and Strainer	N. P. Brass Top and Strainer
4	2	9	11	18	2	25	3.50	9.50	11.50
4	3	10	13	20	2	35	6.00	13.00	15.00
4	4	12	15	24	2	60	9.00	17.00	20.00

No. 9, WITH AUTOMATIC BACK WATER VALVE

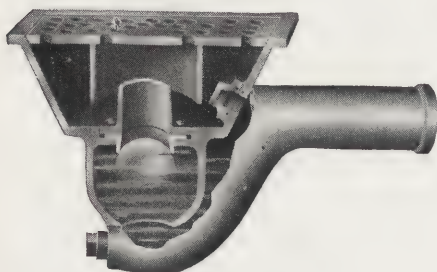
4	2	9	11	18	2	30	7.50	13.50	15.50
4	3	10	13	20	2	40	10.00	17.00	19.00
4	4	12	16	24	2	65	14.00	22.00	25.00

Nos. 8 and 9 are made in one piece, can be furnished with  $\frac{3}{4}$  S trap instead of P trap.

## BLAKE FLOOR DRAINS

### BLAKE JUNIOR FLOOR DRAINS WITH BACK WATER VALVE

EXTRA HEAVY

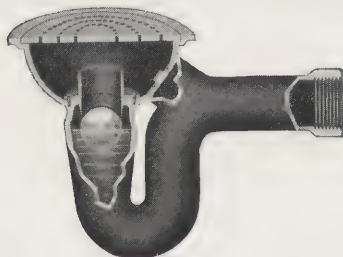


J-3998

Size of Connection . . in.	2	3	4
Size of Top . . . "	11 $\frac{1}{4}$ x11 $\frac{1}{4}$	12x12	17x17
Depth Over All . . . "	9	12 $\frac{1}{2}$	16
Depth of Seal . . . . "	3 $\frac{1}{2}$	4	5
Price, Cast Iron Cover, ea.	14.00	22.00	36.00
" Fin. Brass " " "	21.00	30.00	56.00
" N. P. " " "	26.00	34.00	60.00
If with Tapped Outlet, add . . . . . each	1.00	1.50	3.00

### BLAKE DEEP SEAL DRAINS WITH BACK WATER VALVE

MEDIUM WEIGHT  
TAPPED OUTLET FOR IRON PIPE



J-4000

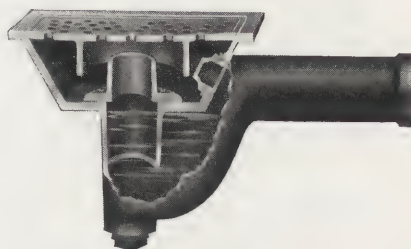
Size of Connection . . . . . inches	2
Diameter Top . . . . . "	8 $\frac{1}{4}$
Depth . . . . . "	11
Length . . . . . "	14 $\frac{1}{2}$
Depth of Seal . . . . . "	4
Price, Cast Iron Cover . . . . . each	3.85
" Fin. Brass " " "	6.85
" N. P. " " "	7.50

Can be furnished with tapped outlet for 1 $\frac{1}{2}$ -inch iron pipe.

Also furnished with spigot end for 2-inch soil pipe.

### BLAKE JUNIOR FLOOR DRAINS WITHOUT BACK WATER VALVE

EXTRA HEAVY



J-4002

Size of Connection, inches	2	3	4
Size of Top . . . "	10x10	12x12	17x17
Depth . . . . . "	9	12 $\frac{1}{2}$	16
Depth of Seal . . . . . "	3 $\frac{1}{2}$	4	5
Price, Cast Iron Cover, ea.	9.00	14.00	28.00
" Fin. Brass " " "	15.00	22.00	48.00
" N. P. " " "	19.00	26.00	52.00
If with Tap, Outlet add "	1.00	1.50	3.00

### BLAKE DEEP SEAL DRAINS WITHOUT BACK WATER VALVE

MEDIUM WEIGHT  
TAPPED OUTLET FOR IRON PIPE



J-4004

Size of Connection . . . . . inches	2
Diameter Top . . . . . "	8 $\frac{1}{4}$
Depth . . . . . "	11
Length . . . . . "	14 $\frac{1}{2}$
Depth of Seal . . . . . "	4
Price, Cast Iron Cover . . . . . each	2.35
" Fin. Brass " " "	5.35
" N. P. " " "	6.00

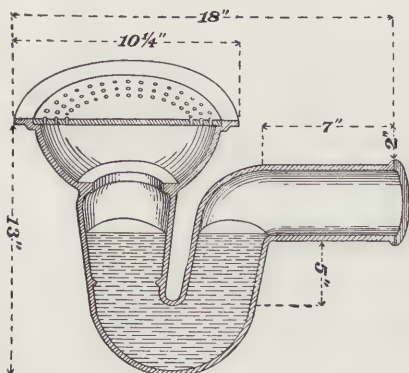
Can be furnished with tapped outlet for 1 $\frac{1}{2}$ -inch iron pipe.

Also furnished with spigot end for 2-inch soil pipe.

## FLOOR DRAINS

### PLAIN COOPER FLOOR DRAINS

Nos. 36 AND 37

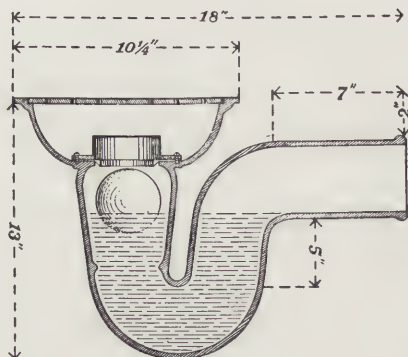


J-4006

Number.....	36	37
Size.....inches	3	4
Diameter Top....."	10 1/4	12 1/2
Water Seal....."	5	6
Price.....each	....	....

### COOPER FLOOR DRAINS BACK WATER VALVE

Nos. 38 AND 39



J-4008

Number.....	38	39
Size.....inches	3	4
Diameter Top....."	10 1/4	12 1/2
Water Seal....."	5	6
Price.....each	....	....

### KING FLOOR DRAINS



J-4010

Extra heavy floor drain with extra heavy plain P trap, extension piece and strainer

Size Outlet.....	inches	4
Diameter Top.....	"	10
Water Seal.....	"	5
Price, with Iron Top.....	each	....
" " Polished Brass Top.....	"	....



## CESSPOOLS AND DRAINS

### CAST IRON BELL TRAP CESSPOOLS



J-4012

#### WITH LOOSE STRAINER

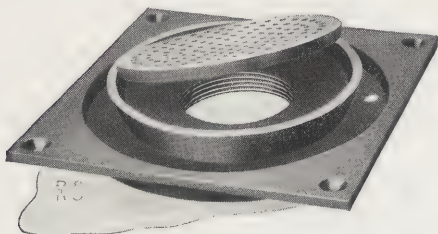
Size In.	Outlet In.	PRICE, EACH		Extra for Threaded Outlet
		Std.	Ex. Hy.	
6x 6	2	.75	1.15	.40
9x 9	3	1.00	1.40	.60
13x13	4	2.40	4.00	.80

#### WITH HINGED STRAINER

Size In.	Outlet In.	PRICE, EACH	Ex. Hy.	Extra for Threaded Outlet
6x 6	2	.80	1.20	.40
9x 9	3	1.15	1.55	.60
13x13	4	3.00	4.40	.80

### CAST IRON BREWERY DRAINS

#### EXTRA HEAVY



J-4014

Flange In.	Strainer In.	Total Depth In.	Outlet In.	PRICE, EACH	
				Tarred	Galv.
13x13	9	2	2, 3 or 4	8.00	12.00

### ROUND REFRIGERATOR DRAINS

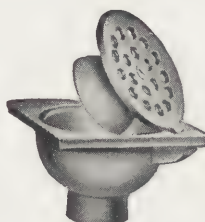


J-4016

Price, Galvanized Iron.....each 1.40  
 Outlet tapped 1¼-inch I.P. thread.

### CAST BRASS BELL TRAP CESSPOOLS

#### Plain



J-4018

#### Threaded



J-4020

Size In.	Outlet In.	PRICE, EACH			
		PLAIN		THREADED	
		Pol. Top	N. P. Top	Pol. Top	N. P. Top
6x 6	2	3.70	4.20	3.90	4.40
9x 9	3	6.50	7.50	6.80	7.80
12x12	4	10.00	11.00	10.40	11.40

### CAST IRON BODY WITH BRASS STRAINER AND TOP

Size In.	Outlet In.	Pol. Top	N. P. Top	Pol. Top	N. P. Top
6x 6	2	2.00	2.50	2.20	2.70
9x 9	3	3.50	4.50	3.80	4.80
12x12	4	6.50	7.50	6.90	7.90

### CAST BRASS SHOWER DRAINS

#### WITH DETACHABLE STRAINER



J-4022

#### FOR LEAD PIPE

Diameter Inches	Connection Inches	Price Each
3½	2	2.50
5	2	4.50
5	3	5.25

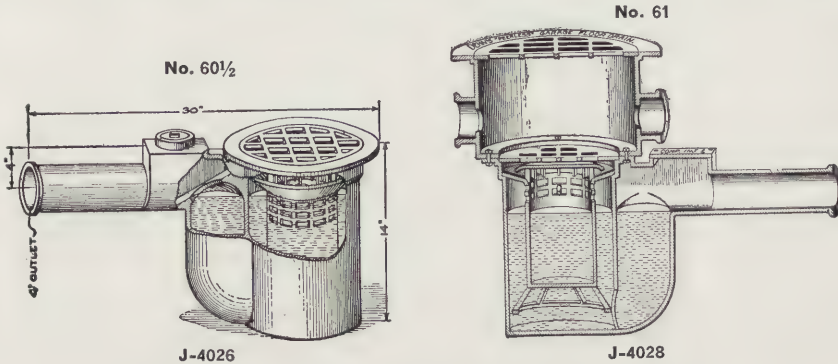
### OBLONG REFRIGERATOR DRAINS



J-4024

Spigot will enter 1¼-inch pipe. Size  
 4x12 inches, total depth about 2½ inches.  
 Price, Galvanized.....each 2.20

# DEHN'S PEERLESS FLOOR AND GARAGE DRAINS



## No. 60 1/2 DEHN'S PEERLESS FLOOR DRAINS

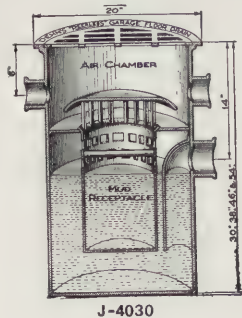
For buildings where the water carries mud, sand and other material. The hand hole is flush with the floor. The grate is extra heavy to support heavy vehicles. No. 60 1/2 is without back water valve.

Size of Outlet.....	inches	4
Water Seal.....	"	5
Diameter of Top.....	"	12
Depth Over All.....	"	14
Length " ".....	"	30
Approximate Weight.....	pounds	125
Price, with Iron Top and Strainer.....	each	25.00

## No. 61 DEHN'S PEERLESS GARAGE FLOOR DRAINS

Especially designed for use in small public or private garages. The receiving hood is provided with vent hub openings on either side from which vent pipes can be carried to the outside of building to allow fumes or gases from the waste gasoline to escape.

Size of Outlet.....	inches	4
" " Vent Connection.....	"	2
Water Seal.....	"	5
Diameter of Top.....	"	15
Depth Over All.....	"	22
Length " ".....	"	24
Approximate Weight.....	pounds	175
Price, with Iron Top and Strainer.....	each	40.00



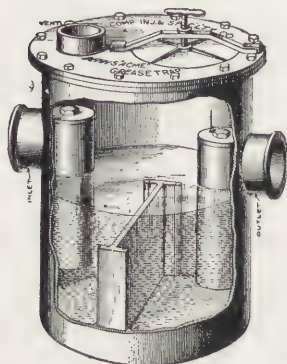
## No. 62 DEHN'S PEERLESS GARAGE FLOOR DRAINS

This drain should be installed in every automobile garage. The mud, sand and other material washed from automobiles vehicles, etc., will accumulate in the receptacle, as this drain is constructed so that the force of the water cannot send it out of the basin into the outlet to the sewer.

Diameter of Top.....	inches	20	20	20	20
Size of Waste Outlet....	"	4	4	4	4
Depth Over All.....	"	30	38	46	54
Vent Hub Connections....	"	2	2	2	2
Approximate Weight.....	pounds	500	600	700	800
Price, Iron Top and Strainer.....	each	75.00	95.00	110.00	125.00

## DEHN'S GREASE TRAPS AND SCALE REMOVERS

No. 112 with Partition



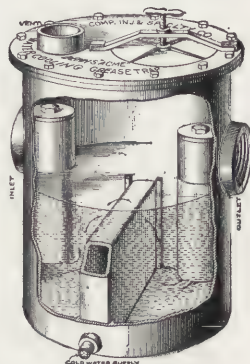
J-4032

 PATENTED  
 DEHN'S ACME GREASE TRAPS

No. 112 grease traps are especially designed for two-flat work, large residences, restaurants and hotels. They are so constructed that the partitions inside of the basin can be removed and replaced with a water jacket partition.

No. 113 traps keep the water in the basin at a low temperature by connecting the cold water supply pipe leading to kitchen sink or other fixtures with the water jacket in the basin. The grease is thereby congealed as soon as it enters the basin.

No. 113 with Water Jacket



J-4034

Number	J-4032	15-1	18-1	24-1	30-1	36-1	24-2	30-2	36-2
Diameter of Top	inches	12	12	20	20	20	24	24	24
Depth Over All	"	15	18	24	30	36	24	30	36
Waste Inlet	"	2	2	4	4	4	4	4	4
" Outlet	"	2	2	4	4	4	4	4	4
Vent Hub, No. 112	"	1½	1½	2	2	2	2	2	2
" " 113	"	1½	1½	2	2	2	2	2	2
Price, No. 112, Painted	each	20.00	25.00	45.00	55.00	70.00	60.00	75.00	90.00
" " 113	"	35.00	40.00	65.00	75.00	90.00	80.00	95.00	110.00

Also furnished enameled inside. Prices upon application



J-4036

DEHN'S No. 111 HYGIENIC GREASE TRAPS

This trap is designed to absolutely prevent the escape of sewer gas and is not liable to syphon. It is readily accessible for cleaning. The reseal opening in the partition positively seals the outlet to the sewer under all conditions. Sewer gas cannot escape when cover is removed. Size of opening: Inlet, 1½-inch I. P.; outlet, 1½-inch I. P.; length, 13 inches; width, 9 inches; depth, 9 inches; grease space, 6x11 inches.

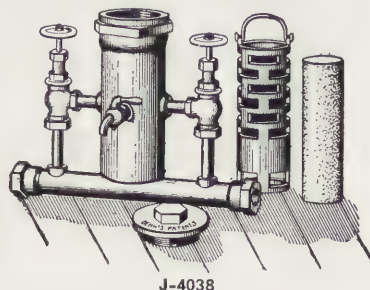
Price, Painted Inside and Outside	each	10.00
" Enameled " " Painted Outside	"	15.00
" " Outside and Painted Inside	"	15.00
" " Inside and Outside	"	20.00

Brass solder unions extra, per set, 2.00 net.

### DEHN'S AUTOMATIC WATER SOFTENER AND SCALE REMOVER

This device will positively overcome the accumulation of lime, magnesia and other incrusting minerals in water backs, range coils, furnaces and heaters. For an ordinary residence one brick will last several weeks.

Price, No. 5, ¾-inch for Residence Use	each	20.00
" " 6, 1 " "	"	25.00
" " 6, 1¼ " "	"	30.00
" " 6, 1½ " "	"	35.00
" " 6, 2 " "	"	40.00
" "Kompost" Bricks for No. 5, per doz.		6.00
" " " " " 6		9.00

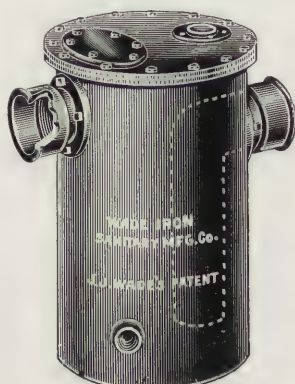


J-4038



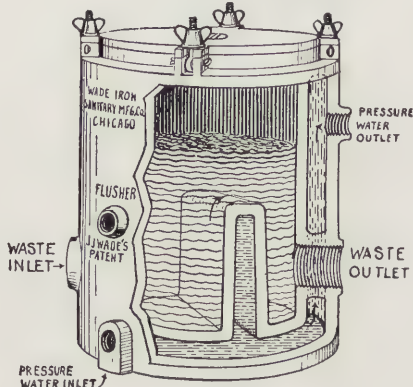
## WADE CATCH BASINS, ETC

**No. 33 EXTRA HEAVY FLUSHING  
CLEANOUT AND BLOW-OFF  
CATCH BASIN**



J-4040

**No. 27 FLUSHING CLEANOUT  
WATER JACKET GREASE  
CATCH BASIN**



J-4042

### **No. 33 EXTRA HEAVY FLUSHING CLEANOUTS AND BLOW-OFF CATCH BASINS**

Hub for 4 or 6-inch extra heavy cast, wrought or vitrified sewer pipe.

Diameter. inches	16	20	20	24	24	24	24	30
Depth. . . . .	30	26	30	30	36	42	48	36
Price. . . . . each	48.00	63.00	70.00	75.00	80.00	90.00	100.00	140.00
Diameter. inches	30	30	30	36	36	36	36	....
Depth. . . . .	48	60	72	36	48	60	72	....
Price. . . . . each	160.00	205.00	230.00	155.00	180.00	205.00	230.00	....

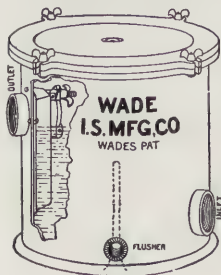
### **No. 27 FLUSHING CLEANOUT WATER JACKET GREASE CATCH BASINS**

The most important feature of these traps is the chilling chamber or jacket surrounding the body of the trap through which the cold water supply is conducted. When water is drawn at the kitchen sink a fresh supply of cold water enters the jacket.

No.	DIMENSIONS, INCHES				Waste Water Connection Inches	Water Pressure Connection Inches	Price Each
	Inside Diam.	Outside Diam.	Inside Depth	Outside Depth			
1	10	13	12	15	2	3/4	35.00
2	12 1/2	16	13 1/2	17	2	3/4	60.00
3	16	20	20	23	3	1 1/4	110.00
4	20	25	22	28	3	1 1/4	135.00

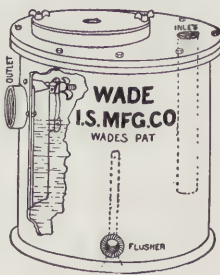
### **FLUSHING CLEANOUT GREASE TRAPS**

**No. 25, WITHOUT  
TRAPPED SEAL PIPE**



J-4044

**No. 26, WITH TRAPPED  
SEAL PIPE**



J-4046

These traps have hinge door deep water seal trap which prevents grease from passing out. This door is machine faced and kept tight with thumbscrew and clamp and is absolutely water and gas-tight.

Size, Inlet and Outlet. inches	1 1/2	2
Price, No. 25, without Trapped Seal Pipe. . . each	20.00	22.00
Price, No. 26, with Trapped Seal Pipe. . . each	22.00	24.00



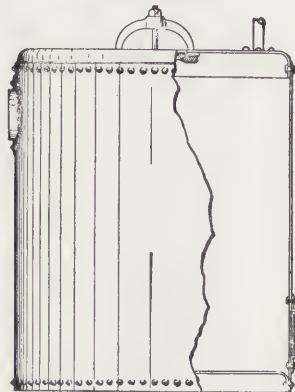
## BLOW-OFF BASIN AND RECEIVERS

### CAST BLOW-OFF GRAVEL AND DRAINAGE CATCH BASINS



J-4048

### STEEL GRAVEL BASIN AND BLOW-OFF RECEIVER



J-4050

### CAST BLOW-OFF, GRAVEL AND DRAINAGE CATCH BASINS

Not intended for pressure of any kind. Fitted with combination inlet and outlet for soil or screwed pipe connections, also with seal against gas on outlet, and manhole in cover. Three-inch vapor vent on 16, 18 and 20 inch sizes. Four-inch vapor vent on all other sizes.

Depth Inches	PRICE, EACH—							
	DIAMETER, INCHES							
	16	18	20	24	30	36	42	48
16	35.50							
18		43.00						
20	39.00		49.60					
24	43.00	49.60	55.00					
30		56.00	60.80	86.40	123.00			
36		64.00	70.40	96.80	136.80	177.60		
42				106.40	150.40	194.00	224.00	
48				116.00	164.20	210.00	240.80	325.50
54					177.90	226.00	257.60	350.00
60					191.35	242.00	274.00	373.80
66								395.50
72						288.00		420.00

### STEEL GRAVEL BASINS AND BLOW-OFF RECEIVERS

APPROX.				Price with Manhole and Two Flanges Each	APPROX.				Price with Manhole and Two Flanges Each
Diam. Inches	Height Inches	Capacity Gallons	Weight Pounds		Diam. Inches	Height Inches	Capacity Gallons	Weight Pounds	
18	20	23	250	80.00	30	30	90	550	130.00
18	24	26	280	84.00	30	36	110	600	136.00
20	20	28	300	90.00	30	42	130	650	144.00
20	24	34	360	100.00	30	48	150	700	152.00
24	24	47	400	110.00	36	30	130	680	140.00
24	30	59	450	116.00	36	36	160	740	152.00
24	36	71	500	120.00	36	42	185	800	160.00
30	24	73	500	120.00	36	48	210	850	164.00

Thickness of shell,  $\frac{1}{4}$  inch. Thickness of heads,  $\frac{5}{16}$  inch.

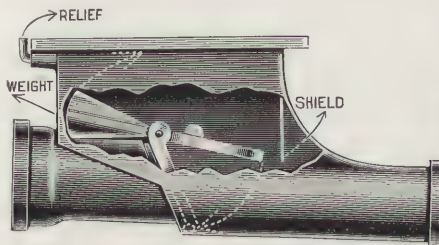
Flanges of any size required located to suit purchaser. If hand hole is used instead of manhole, deduct 2.50 net.

# SEWER VALVES

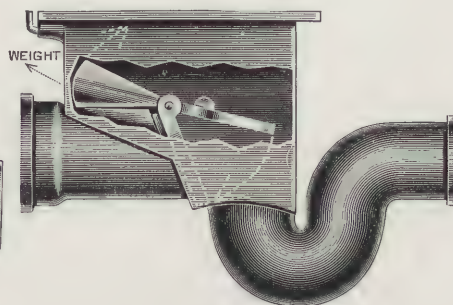
## MARSH OPEN WAY

No. 1

No. 2, WITH TRAP



J-4052



J-4054

The principle of the valve is that of an adjustable balanced disc, operated by a float. By the adjustment of a lead button the disc may be kept at any desired distance from the seat. The action of the backing water raises the float balance weight and forces the disc against the seat. This insures at all times an open way for sewerage and ventilation, a perfectly clean valve seat and certain protection from floods by back water.

This valve is fitted with a relief near the top which permits air to pass into or out of the valve as circumstances may require.

No. 1

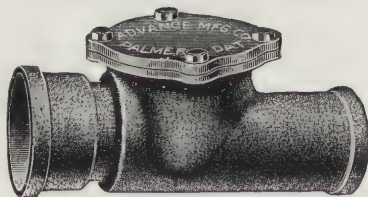
Size..... inches	4	6	8	9
Size of Manhole..... inches	6x10	7x13	9x15	10x18
Length, End to End..... "	21	24	29	31
Height from Center of Hub..... "	7½	10	10¾	12¼
Price..... each	40.00	54.00	80.00	90.00
" Extra for Each Threaded End..... net "	4.00	5.00	6.00	7.00

No. 2

Size..... inches	4	6	8
Price..... each	48.00	70.00	90.00
" Extra for Each Threaded End..... net "	4.00	5.00	6.00

## PALMER

WITH HANDHOLE AND COVER



J-4056

VALVE ONLY



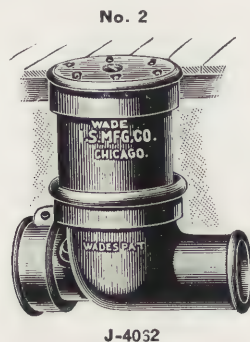
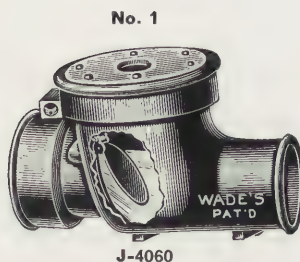
J-4058

Size..... inches	2	3	4	5	6	8	9	10	12
Price, Valves and Settings..... each	6.00	6.50	7.50	9.00	10.00	15.00	....	30.00	50.00
" Old Style Valve only.... "	1.00	1.20	1.60	2.20	2.40	3.80	6.00	15.00	20.00

Valves are furnished with either brass or white metal seats at same price.

## BACK WATER VALVES AND TRAPS

### WADE BACK WATER GATE VALVES



#### No. 1 BACK WATER GATE VALVES

The Wade Back Water Gate Valve automatically closes tight after every discharge of waste water and cannot break off at the hinges by any strong pressure or sewer rods. If the back water gate valve and interior of drain is regularly flushed by direct pressure of water, neither the valve nor the hinges will ever need oiling; nor will it become clogged. Pressure water should always be connected to flush jet to clean the interior of fittings and drains, and prevent evaporation of deep water seal traps.

The back water gate fitting is tapped for making flush pipe connections. The gate valve is made of extra quality brass and has planed face, making it gas and water tight.

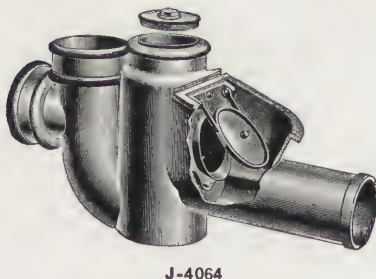
The pipe hub on fitting is for either vitrified clay pipe, standard or extra heavy soil pipe.

Size of Valve.....inches	2	3	4	6	6	8
" " Ring and Cover....."	6	6	8	8	10	14
Price.....each	8.00	10.00	14.00	18.00	18.00	28.00

#### No. 2 BACK WATER GATE VALVES

The No. 2 valve is the same as the No. 1 except it has extension manhole which extends to cellar floor. The bolted cover is fitted with a gasket, and can be easily removed for inspection without disturbing the floor.

Size of Valve.....inches	2	3	4	6	6	8
Diameter of Extension....."	6	6	8	8	10	14
Length " "....."	10	10	10	8	10	10
Price.....each	12.00	14.00	20.00	24.00	26.00	38.00



#### BARRETT PATTERN BACK WATER TRAPS

Size Inches	Price, Each Std. or Extra Heavy	Size Inches	Price, Each Std. or Extra Heavy
4	.....	8	.....
5	.....	10	.....
6	.....	6-in. Tile	.....



DC  
MFG. CO.  
TVS



DC  
MFG. CO.  
TVS

DC  
MFG. CO.  
TVS

DC  
MFG. CO.  
TVS



DC  
MFG. CO.  
TVS

DC  
MFG. CO.  
TVS

DC  
MFG. CO.  
TVS



DC  
MFG. CO.  
TVS

DC  
MFG. CO.  
TVS



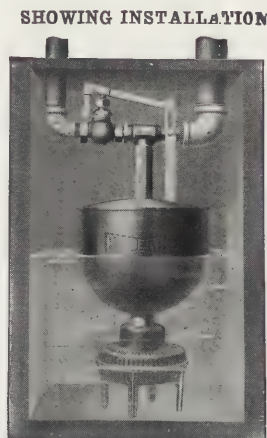
DC  
MFG. CO.  
TVS

DC  
MFG. CO.  
TVS

DC  
MFG. CO.  
TVS



## PENBERTHY CELLAR DRAINERS



This is a water pressure ejector of high capacity, made of best bronze metal, automatically operated by a copper float controlled, quick opening and closing valve. It cannot leak, and allows the ejector to give its greatest efficiency by working to full capacity. The float arms are slotted where they connect to the valve lever. This prevents the ejector from operating until the water has raised the float to the highest point; and, as the water is ejected, the arms travel down the length of these slots before the weight of the float affects the valve. No leather washers to dry up and cause leaks.

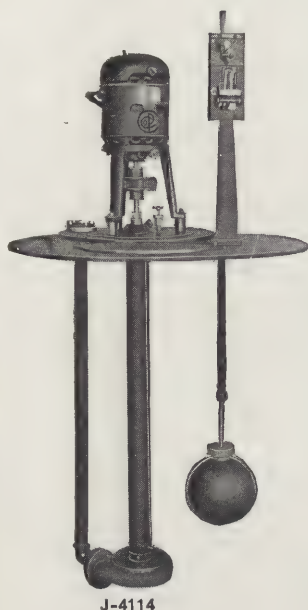
To make possible the installation of this drainer in small holes or sumps, it has been made as compact as possible. The float, instead of being round, is flat on the top, thus occupying less space than a round float. The float is built around the suction pipe. This patented feature has the added advantage of being rigid and overcomes all the trouble of the common loose float. The balance of the drainer is built directly above the float. This not only keeps the whole machine in as small a space as possible, but also keeps all working parts, with the exception of strainer, suction pipe and float, above the water. Because of this there is no chance of corrosion or of the exterior parts becoming clogged up by deposits of slime, dirt or sediment. A special strainer prevents any foreign particles from coming in contact with the interior parts. A foot valve is also provided inside the strainer, which closes the instant the drainer ceases operation, holding all the water in the pipes all primed for starting instantly at the next filling of the sump, and also preventing flooding of the cellar if for any reason the water pressure is insufficient to operate the ejector.

Number	PRICE, EACH		PIPE CONNECTIONS INCHES		DIMENSIONS OVER ALL INCHES		*Capacity Gallons per Hour
	Automatic	Non-Automatic	Supply	Discharge	Height	Diameter	
1	25.00	15.00	$\frac{1}{2}$	1	$9\frac{1}{2}$	$20\frac{3}{4}$	115 to 650
2	40.00	25.00	$\frac{3}{4}$	$1\frac{1}{4}$	$11\frac{1}{4}$	$22\frac{1}{4}$	180 " 1050
3	55.00	35.00	1	$1\frac{1}{2}$	$15\frac{1}{8}$	$25\frac{3}{8}$	310 " 1650
4	80.00	50.00	$1\frac{1}{4}$	2	$18\frac{1}{2}$	$27\frac{1}{2}$	450 " 2400
5	110.00	70.00	$1\frac{1}{2}$	$2\frac{1}{2}$	$20\frac{9}{16}$	$27\frac{7}{8}$	600 " 3200
6	160.00	100.00	2	3	36	20	780 " 4200
7	225.00	135.00	$2\frac{1}{2}$	$3\frac{1}{2}$	38	22	1000 " 5300
8	300.00	175.00	3	4	40	24	1250 " 6500

\*Capacities given above represent actual water removed from the pit with pressure 20 to 80 pounds and 3 to 18-foot elevation.

Sizes 7 and 8 made to order only.

## AUTOMATIC ELECTRIC BILGE PUMPS



For pumping water out of basements that are below the sewer level.

The bilge or sump pump is the latest and most efficient equipment designed to pump seepage water out of basements which are located below the level of the sewer in the street. It is more efficient and requires less attention than either the steam or water siphon, which was formerly used on this class of duty.

It is important that a bilge pump of good construction be selected. The equipment illustrated here will meet that requirement. It is fitted with self-aligning thrust ball bearing, which carries the weight of the impeller, shaft and coupling; has bronze intermediate guide bearings every 4 feet to guide the shaft; all bearings are lubricated from above the basin cover; automatic control is simple and positive; it is of the carbon contact type, rugged in construction and all mounted on one pedestal.

This equipment is furnished in sizes up to 1500 gallons per minute. If uncertain what capacity pump to use, write us in detail, giving area to be drained, total discharge head and electric current characteristics.

### BASIN DIAMETER FOR SINGLE UNITS

H-175 to H-181, 30-in.  
 H-184 " H-201, 36 "  
 H-204 " H-216, 42 "  
 H-219 " H-227, 48 "

### BASIN DIAMETER FOR DUPLEX UNITS

H-175 to H-200, 48-in.  
 .....  
 H-203 to H-225, 60-in.  
 .....

All basins should be 36 inches deeper than lowest inlet entering them.

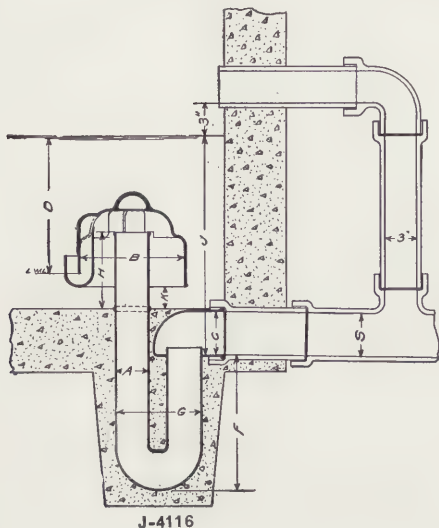
Units include: Pump, motor, complete automatic control and cast iron basin cover, but do not include basin.

Unit No.	Type of Pump and Frame No.	Cap. per Min. Gals.	Dis-charge Inches	Will Pump Against a Head at 1750 R.P.M. Feet	H.P. of Motor	Unit No.	Type of Pump and Frame No.	Cap. per Min. Gals.	Dis-charge Inches	Will Pump Against a Head at 1750 R.P.M. Feet	H.P. of Motor
H-200	L. G.	15	1	10	$\frac{1}{4}$	H-229	L-3	125	$2\frac{1}{2}$	15	$1\frac{1}{2}$
H-201	L. G.	15	1	19	$\frac{1}{2}$	H-230	L-3	125	$2\frac{1}{2}$	21	2
H-202	L. G.	15	1	28	$\frac{3}{4}$	H-231	L-3	125	$2\frac{1}{2}$	33	3
						H-232	L-3	125	$2\frac{1}{2}$	55	5
H-203	L. G.	30	$1\frac{1}{4}$	7	$\frac{1}{4}$	H-234	L-3	150	3	14	$1\frac{1}{2}$
H-204	L. G.	30	$1\frac{1}{4}$	14	$\frac{1}{2}$	H-235	L-3	150	3	19	2
H-205	L. G.	30	$1\frac{1}{4}$	21	$\frac{3}{4}$	H-236	L-3	150	3	28	3
H-206	L. G.	30	$1\frac{1}{4}$	26	1	H-237	L-3	150	3	48	5
H-209	L. G.	50	$1\frac{1}{2}$	12	$\frac{1}{2}$	H-239	L-3	200	3	14	2
H-210	L. G.	50	$1\frac{1}{2}$	18	$\frac{3}{4}$	H-240	L-3	200	3	22	3
H-211	L. G.	50	$1\frac{1}{2}$	22	1	H-241	L-3	200	3	37	5
H-212	L-3	50	$1\frac{1}{2}$	28	$1\frac{1}{2}$	H-244	L-4	250	4	12	2
H-216	L. G.	75	2	14	$\frac{3}{4}$	H-245	L-4	250	4	20	3
H-217	L. G.	75	2	16	1	H-246	L-4	250	4	34	5
H-218	L-3	75	2	22	$1\frac{1}{2}$						
H-219	L-3	75	2	30	2	H-249	L-4	300	4	17	3
H-223	L-3	100	$2\frac{1}{2}$	14	1	H-250	L-4	300	4	28	5
H-224	L-3	100	$2\frac{1}{2}$	17	$1\frac{1}{2}$	H-251	L-4	300	4	44	$7\frac{1}{2}$
H-225	L-3	100	$2\frac{1}{2}$	25	2	H-252	L-4	300	4	55	10
H-226	L-3	100	$2\frac{1}{2}$	38	3	.....	...	...	...	..	....

# MILLER AUTOMATIC SYPHONS

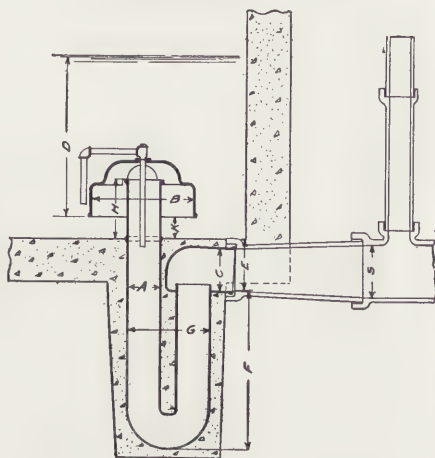
## STANDARD DESIGN, SINGLE SEWAGE

3 AND 4-INCH



J-4116

5, 6 AND 8-INCH



J-4118

When conditions are favorable, subsoil irrigation is probably the best method to use; it is economical, efficient and requires the least amount of attention.

The sewage from the house is delivered into a settling tank of proper size and design to allow opportunity for the settling of the solids. From this tank, the sewage flows into a dosing tank, in which is located a syphon that holds back the flow until a certain depth is reached, when the entire contents of the dosing tank is discharged very rapidly into the subsoil tile. This intermittent discharge is essential for the reason that if the sewage is allowed to pass on into the disposal field in the same irregular way that it leaves the house, the filtering material will be constantly saturated in places and become clogged and foul. In some cases where the soil is not of the best, it might be desirable to construct two disposal fields, which would be dosed alternately by installing a pair of alternating syphons in the dosing tank.

The syphons illustrated above are recommended for small plants. The 3 and 4-inch sizes are each made in two drawing depths, the 5 and 8-inch in one only.

Size .....	3	3	4	4	5	6	8
Diameter of Bell—B.....inches	10	10	12	12	15	19	24
Diameter of Disch. Head—C....."	4	4	4	4	6	8	10
Drawing Depth—D....."	13	15	14	17	23	30	35
Invert below Floor—E....."	.....	.....	.....	.....	7½	10	12
Depth of Trap—F....."	12	12	13	13	22	29	33
Width of Trap—G....."	10	10	12	12	14	16	22½
Height above Floor—H....."	7¼	9¼	8¾	11¾	9½	11	13½
Clearance under Bell—K....."	2	2	2	2	3	4	5
Diameter of Carrier—S....."	4	4	4-6	4-6	6-8	8-10	12-15
Invert to Discharge Line—J....."	20½	22½	22¾	25¾	.....	.....	.....
Average Discharge per Second ..cubic ft.	.16	.17	.35	.37	.73	1.06	2.12
Price .....	20.00	20.00	23.00	23.00	33.00	37.00	50.00

Two single 5, 6, or 8-inch syphons set side by side in the same tank will alternate.



## TOTAL ECLIPSE HYDRANTS AND STREET WASHERS

No. 1 HYDRANT No. 7 SELF-CLOSING HYDRANT



J-4138



J-4140

No. 36 STREET WASHER



J-4142

WALL HYDRANT



J-4144

Size.....inches	3/4	1	1 1/4	3/4	1	1 1/4	3/4	1	1 1/4	3/4	1	1 1/4
Length.....feet	1 1/2	1 1/2	1 1/2	2	2	2	3	3	3	4	4	4
Price, No. 1 each	9.80	12.70	19.70	10.10	13.50	20.50	10.60	14.30	21.80	11.00	14.75	22.25
" " 7 "	10.80	13.70	....	11.10	14.50	....	11.60	15.30	....	12.00	15.75	....
" " 36 "	6.60	9.50	18.00	6.85	10.25	18.75	7.35	11.10	20.10	7.75	11.70	20.70

Size.....inches	3/4	1	1 1/4	3/4	1	1 1/4	3/4	1	1 1/4	3/4	1	1 1/4
Length.....feet	5	5	5	6	6	6	8	8	8	10	10	10
Price, No. 1 each	11.50	15.30	22.80	12.10	16.00	23.75	13.50	18.50	27.00	16.00	21.00	30.00
" " 7 "	12.50	16.30	....	13.10	17.00	....	14.50	19.50	....	17.00	22.00	....
" " 36 "	8.25	12.00	21.00	8.85	12.75	21.75	10.25	15.25	25.25	12.75	17.75	28.75

### STRAIGHT NOZZLE WALL HYDRANTS

Thickness of Wall.....inches	9	13	15	16	18	20	22	24	26	28	30	36
Price, 3/4-in. Brass, Pol...each	3.50	4.00	4.25	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.50
" 3/4 " " N. P. . . "	4.25	4.75	5.00	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.25
" 1 " " Pol. . . . "	7.00	8.00	8.50	8.75	9.00	9.50	9.75	10.00	10.25	10.50	10.75	11.25
" 1 " " N. P. . . "	8.00	9.00	9.50	9.75	10.00	10.50	10.75	11.00	11.25	11.50	11.75	12.25

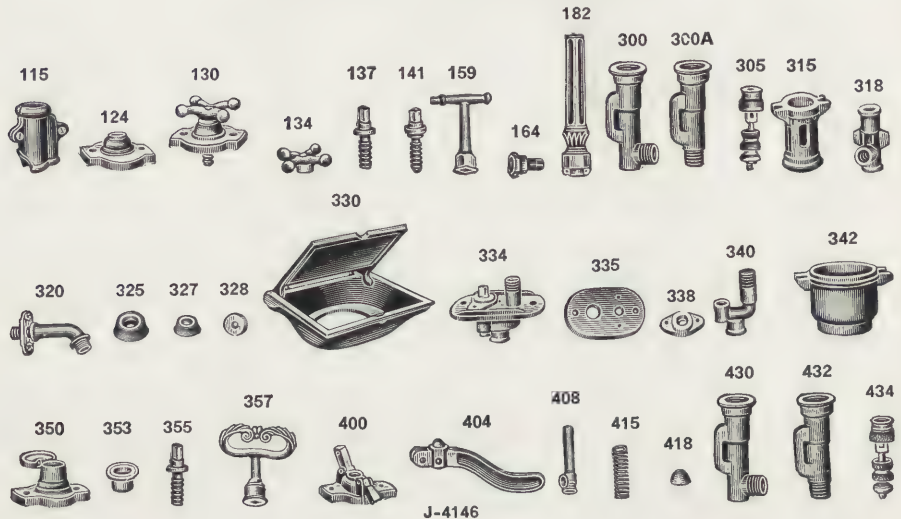
These hydrants have all brass body compression valve.

They can be repaired without disturbing pipe connections, by removing lock nut at front and pulling out plunger.



## TOTAL ECLIPSE HYDRANT AND STREET WASHER REPAIRS

ALL PARTS INTERCHANGEABLE



Size		inches	$\frac{3}{4}$	" 1	1 $\frac{1}{4}$
No.					
115	Sand Cup to Cover Valve	each	.20	.30	.50
124	Cap for No. 1 Hydrant	"	.15	.25	.25
130	Regular Cap Handle and Screw Complete	"	.70	1.00	1.00
134	Handles for No. 1 Hydrant	"	.20	.20	.20
137	Hydrant Screw	"	.35	.35	.35
141	Street Washer Screw	"	.35	.35	.35
159	" " Key	per doz.	..	..	..
164	Brass Coupling for Valve Body	each	.30	.40	.50
182	Hydrant Casings	each half	.60	.75	1.00
300	Brass Valve Body Regular for Compression Hydrant or Street Washer	each	1.25	1.75	..
300A	Brass Valve Body Inlet from Bottom for Iron Pipe only, for Compression Hydrant or Street Washer	each	1.25	1.75	..
305	Valve Plunger for Compression Hydrant or Street Washer	"	.50	.75	..
315	Iron Nozzle Section	"	.60	.70	..
318	Brass Hydrant Nozzle Coupling	"	.45	.60	..
320	Hydrant Nozzle and Plate	"	.40	.50	..
325	Large Top Valve Plunger Cup Washer	per doz.	..	..	..
327	Small Valve Plunger Cup Washer	"	..	..	..
328	Flat Valve Washer	"	..	..	..
330	Street Washer Box	each	.50	..	..
334	" " Plate Nozzle and Screw Complete	"	1.50	..	..
335	" " " " " " " "	"	.20	..	..
338	" " Cap	"	.10	..	..
340	" " Brass Nozzle Section	"	.50	..	..
342	" " Neck	"	.30	..	..
350	Cap for No. 2 Key Hydrant	"	.30	.40	.50
353	Iron Bushings	"	.10	.20	.20
355	Brass Screw for No. 2 Key Hydrant	"	.35	.35	.35
357	Key for No. 2 Hydrant	per doz.	..	..	..
400	Cap " Self-closing Hydrant	each	.50	.60	..
404	Handle with Screw for Self-closing Hydrant	"	.50	.60	..
408	Brass Hydrant Stem for Self-closing Hydrant	"	.50	.60	..
415	Spring for Self-closing Hydrant	"	.20	.30	..
418	Rubber Seat for Self-closing Hydrant	"	..	..	..
430	Brass Valve Body Regular, for Self-closing Hydrant	"	1.25	1.75	..
432	" " " Inlet from Bottom for Iron Pipe only, for Self-closing Hydrant	each	1.25	1.75	..
434	Valve Plunger for Self-closing Hydrant	"	.75	1.00	..

## FIRE HYDRANTS ECLIPSE ANTI-FREEZING



STANDARD HYDRANT



### No. 3

PRICE, EACH

Diam. of Inlet Pipe Inches	Pave-ment to Center of Inlet Feet	One 2½-inch Hose Nozzle	Two 2½-inch Hose Nozzles	Three 2½-inch Hose Nozzles	One Steamer Nozzle	One Steamer and One 2½-inch Nozzle	One Steamer and Two 2½-inch Nozzles	Frost Case Standard Length	Each Feet in Length of Stand-pipe Extra	Each Feet in Length of Frost Case Extra
3	5	32.00	34.00	36.00	34.00	36.00	38.00	7.00	1.50	1.00
4	5	32.00	34.00	36.00	34.00	36.00	38.00	7.00	1.50	1.00
5	5	34.00	36.00	38.00	36.00	38.00	40.00	7.00	1.50	1.00
6	5	34.00	36.00	38.00	36.00	38.00	40.00	7.00	1.50	1.00

### No. 6

6	5	47.00	49.00	51.00	49.00	51.00	53.00	10.00	2.25	2.00
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### No. 10

6	5	47.00	49.00	51.00	49.00	51.00	53.00	10.00	2.25	2.00
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Nos. 6 and 10 hydrants are same as No. 3, except having a larger valve opening and standpipe.

An extra charge is made for flange inlet or flange inlet with companion flange.

In ordering, always give following information, viz.—

Whether wrought iron pipe thread, flange, bell or spigot connection. Size of bottom connection. Length from pavement to center of inlet. Size and form of nut to open hydrant. Whether to turn to right or left to open. Number and size of nozzles. Send hydrant cap or hose coupling for gauge of thread.

Unless otherwise ordered, hydrant thread will be made to open by turning to the left. Frost cases furnished if desired.

## FIRE HYDRANTS

### ECLIPSE ANTI-FREEZING

**No. 2, FOR PRIVATE CORPORATIONS**  
**No. 1½-INCH**



J-4152

**No. 2-INCH**



J-4154

**No. 4 DOUBLE-VALVE HYDRANT**  
**FOR SPRINKLING PURPOSES**



J-4156

#### No. 2—1½-INCH INLET AND OUTLET

To Set in Ground....feet	1½	2	3	4	5	6	8	10
Price.....each	16.30	16.45	16.80	17.15	17.50	18.00	19.50	22.00

#### No. 2—2-INCH INLET AND OUTLET

To Set in Ground....feet	1½	2	3	4	5	6	8	10
Price.....each	22.25	22.50	23.00	23.50	24.00	24.75	27.00	30.00

#### No. 4—2-INCH INLET AND OUTLET

To Set in Ground....feet	1½	2	3	4	5	6	8	10
Price.....each	28.25	28.50	29.00	29.50	30.00	30.75	33.00	36.00

#### No. 4—2½-INCH INLET AND OUTLET

To Set in Ground....feet	1½	2	3	4	5	6	8	10
Price.....each	32.25	32.50	33.00	33.50	34.00	34.75	37.00	40.00

The No. 2 hydrant is designed for private purposes, such as for stockyards, factories, lumberyards, railroads, fertilizing purposes, etc. The No. 4 hydrant is designed for sprinkling or other purposes, where hydrant is to be operated very often each day.

Unless otherwise ordered, inlet is made for wrought iron pipe.

An extra charge is made for bell inlet.





## PEERLESS SERVICE OR STOP COCK BOXES

### FOR WATER OR GAS

(Patented)



J-4170

With this style of Box, the Cock Handle can always be located upon first effort. The Box can be raised and lowered without digging. If necessary an extension piece can be added to a box already in the ground without digging. The hinged top makes a good job when the box is laid in asphalt or cement. It is the only box that can be set with the trench full or partly full of water. It is especially adapted for use in sandy soil or quick sand.

It is guaranteed to be practically mud, sand and water tight.

It has a heavy cover and top, and a specially strong brass screw, made of a good quality of brass, making an almost unbreakable cover.

This box fits the threads of any Minneapolis Pattern Curb Cock.



J-4172

#### LONG REGULAR PATTERN

24-inch Lower Section; 1½-inch Pipe in Upper Section

Number .....	1	1½	2	3	4	5	6	7
Extension .....	2-4	2½-4½	3-5	3½-5½	4-6	5-7	6-8	7-9
Price, Black Pipe.....each	1.50	1.58	1.67	1.75	1.85	2.01	2.18	2.35
“ Galv. Pipe..... “	1.64	1.76	1.88	2.00	2.12	2.36	2.60	2.84

#### SHORT REGULAR PATTERN

12-inch Lower Section; 1½-inch Pipe in Upper Section

Number .....	01	02	03	04	05	06	07	08	09
Extension.....feet	1-2	1½-2½	2-3	2½-3½	3-4	3½-4½	4-5	5-6	6-7
Price, Black Pipe.....each	1.20	1.28	1.37	1.45	1.54	1.62	1.71	1.88	2.05
“ Galv. Pipe. “	1.27	1.39	1.51	1.63	1.75	1.87	1.99	2.23	2.47

#### LARGE OR MINNEAPOLIS PATTERN

24-inch Lower Section; 2-inch Pipe in Upper Section

Number .....	1	1½	2	3	4	5	6	7	8	9
Extension.....feet	2-4	2½-4½	3-5	3½-5½	4-6	5-7	6-8	7-9	8-10	9-11
Price, Black Pipe.....each	2.45	2.57	2.69	2.81	2.93	3.17	3.41	3.65	3.89	4.13
“ Galv. Pipe. “	2.65	2.82	2.99	3.16	3.33	3.67	4.01	4.35	4.69	5.03

Covers for long and short regular pattern, each, .25; covers for large pattern each, .35  
Malleable Hand Wrenches for Top Screws, each .15.

Keys and Rods for Boxes 2 feet and under in length, each, 1.00.

For each additional foot add, .20

Nipple and Coupling to increase the Bottom Thread in the Long Regular, Short Regular or Large Boxes to 2½, 3 or 4 inches for 1½, 1½ or 2-inch Minneapolis Cocks furnished as follows: 2 to 2½ inch, .45; 2 to 3-inch, .60; 2 to 3½-inch, .70; 2 to 4-inch, .85.

By attaching Peerless Hoods, this Box can be used in repair work where the Regular Cocks, without Minneapolis Threads, have been installed. Price, each, .40.

Bottom Tappings on Long or Short Regular Boxes can be furnished with 1½ or 2-inch I. P. Thread. Unless otherwise specified, the 1½-inch thread will be furnished.

Bottom Tappings on Large Pattern Boxes can be furnished with either 2 or 2½-inch I. P. Thread. Unless otherwise ordered, 2-inch will be furnished.

## VALVE BOXES

Valve Box



J-4174

Square Head for Valve Box



J-4176

Extension Section



J-4178

Regular Covers



J-4180



Flanged Cover



J-4182

Lock Cover



J-4184

## VALVE BOXES

### 5 1/4-INCH SHAFT, No. 6 BASE

Number	AAA	AA	A	B	C	CC
Extension.....inches	17	22-28	28-40	36-48	42-54	48-60
Price.....each	4.60	5.55	5.80	6.30	6.55	6.90
Number	D	DD	E	F	G	H
Extension.....inches	42-65	48-72	60-72	60-84	72-84	72-96
Price.....each	7.30	7.90	8.10	8.40	8.80	9.10

### EXTENSION SECTIONS

Number.....	58
Increasing Length of Box.....inches	14
Price (Size, 5 1/4 Inches).....each	1.35

### BASES FOR VALVE BOXES

No. 6 base is used as a standard for quoting lengths and prices on valve boxes. When any other base is required the length of valve box and price are changed.

Number	Shape of Base	Maximum Size of Valve, Inches	Add to Price	Deduct from Price	Box Longer, Inches	COMPLETE Shorter, Inches
4	Round	4	.....	.25	.....	3
6	"	8	.....	.....	.....	.....
8	"	10	.50	.....	No change	No change
16	"	12 or 16	3.50	.....	4 3/8	.....
160	Oval	16	.50	.....	.....	1 1/2
162	"	20	3.00	.....	.....	1

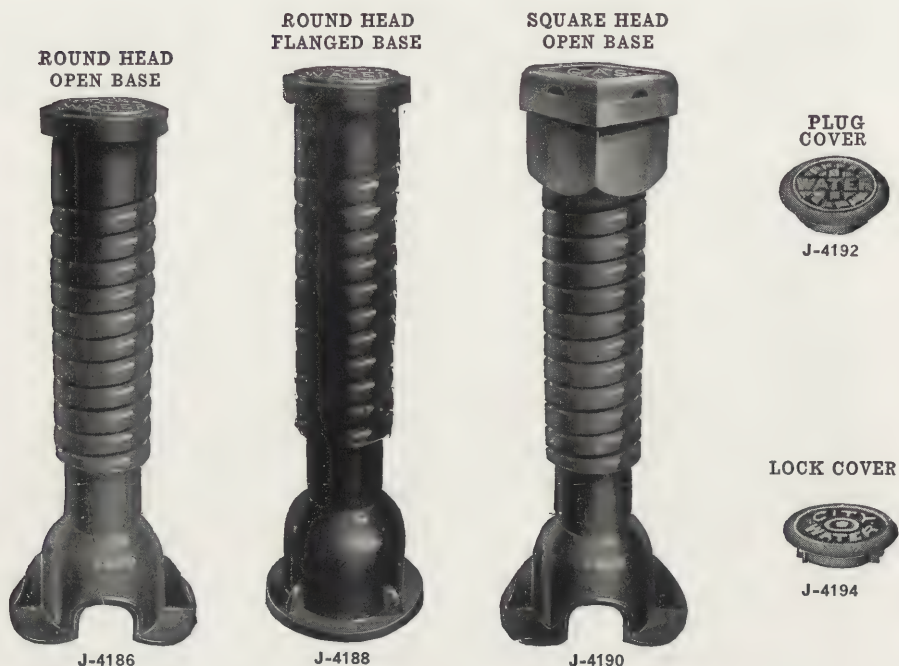
### COVERS FOR VALVE BOXES

Price, Regular.....each	.85
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### SQUARE HEAD VALVE BOXES

Add to above Lists.....	.25
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## ROADWAY BOXES



### ROUND HEAD, 4¼-INCH SHAFT, OPEN BASE

Number.....	141Q	142Q	142R	143R	144R	145R
Extension.....inches	18-24	27-34	27-42	34-48	39-54	46-60
Price.....each	3.00	3.35	3.90	4.10	4.25	4.55

### ROUND HEAD, 4¼-INCH SHAFT, FLANGED BASE

Number.....	41Q	42Q	42R	43R	44R	45R
Extension.....inches	18-24	27-34	27-42	34-48	39-54	46-60
Price.....each	3.00	3.35	3.90	4.10	4.25	4.55

### SQUARE HEAD, 4¼-INCH SHAFT, OPEN BASE

Number.....	137	142	140U	141S	142S	142T
Extension.....inches	12 in. Long	16 in. Long	18-24	21-31	27-36	29-42
Price.....each	2.70	2.90	3.35	3.65	3.80	4.20

### EXTENSION SECTIONS

Number.....	49
Increases Length of Box.....inches	18
Price.....each	1.25

## CAST IRON SOIL PIPE

### FIVE-FOOT LENGTHS

#### SINGLE HUB



J-4214

Revised list prices adopted March 8, 1915

Size ..... inches	2	3	4	5	6	7	8	10	12	15
Price, Standard... per length	1.30	1.75	2.30	2.90	3.50	7.00	7.00	12.00	15.00	28.00
" Extra Heavy "	2.00	3.10	4.20	5.50	6.50	11.00	11.00	18.00	22.00	40.00

#### DOUBLE HUB



J-4216

Size ..... inches	2	3	4	5	6	7	8	10	12	15
Price, Standard... per length	1.40	1.85	2.40	3.10	3.70	8.00	8.00	13.00	16.00	29.00
" Extra Heavy "	2.10	3.25	4.40	5.70	6.80	12.00	12.00	19.00	23.00	42.00

### APPROXIMATE WEIGHTS OF SOIL PIPE AND FITTINGS

Style .....	STANDARD								EXTRA HEAVY							
Size .....inches	2	3	4	5	6	8	10	12	2	3	4	5	6	8	10	12
Pipe, lbs. .... per length	18	26	35	45	55	85	115	165	27½	47½	65	85	100	170	225	270
Quarter Bends, lbs. each	4½	7	10½	13	16½	33	54	58½	6½	10	15	19	23½	52	80	95
Sixth “ “ “	4	6½	9	11½	14	30	30	48	6	9½	13	16½	20	44	50	90
Eighth “ “ “	3½	6	8½	10½	13	24	38	42½	5½	8	12¼	15½	18½	40	56	80
T Branch, “ “ “	7	11	14½	18	23	33	42	102	10¼	15½	21	26½	32½	60	75	166
San. T Branch, “ “ “	7½	12	16	20	24	49	100	....	11	16½	22½	28	34½	80	135	210
Crosses, “ “ “	9½	14	19	23½	28½	40	70	100	13½	19¾	27	33½	40½	92	116	176
San. Cross “ “ “	10½	15½	20½	25½	31½	52	....	....	14½	22	29½	36½	44½	79	161	....
Y Branch, “ “ “	7½	12	17	22	28	58	106	158	11	17	24	31½	39½	91	136	218
Half Y Branch, “ “ “	7	11	15	19	24	....	....	....	10¼	15½	21½	27½	34	90	....	....
Double Y Branch, “ “ “	10½	16	22½	30	36½	77	121	....	14¾	23	32	41½	52	100	153	266
Double Hubs, “ “ “	4	5¾	7½	9	10½	16	21	35	5¾	8½	10¾	12¾	14¾	30	35	45
S Traps, “ “ “	8½	14	21	28½	37	94	....	....	12	20	30	40	53½	123	....	....
P “ “ “	7	12	17½	24½	31½	80	....	....	10½	17½	25½	34½	45	100	....	....
Rung Traps, “ “ “	8½	13½	19½	26	34	54	....	....	11¾	19	27	37	48	110	....	....
Reducers, “ “ “	..	4½	6	7½	9	8	21½	28	..	6¼	8½	10¾	12¾	15	28½	48

To determine the right or left-hand inlet or outlet in bends, branches and offsets, place them with the hub facing toward you and with spigot lower than hub. On traps, place in regular position with the hub end nearest you.

Long quarter bends are measured from the inside of hub nearest spigot to end of spigot. Other bends are measured from end of spigot to nearest point on inside base of hub. Long T's, Y's, etc., are measured from the base of the hub on main to the end of spigot.



## CAST IRON SOIL PIPE FITTINGS

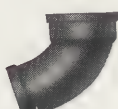
### BENDS

Quarter



J-4218

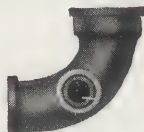
Fifth



J-4220

Size Inches	PRICE, EACH			
	1/4-BEND		1/5-BEND	
	Std.	Ex. Hy.	Std.	Ex. Hy.
2	.40	.55	.45	.60
3	.55	.70	.80	1.00
4	.70	.85	.80	1.00
5	1.05	1.25	1.05	1.25
6	1.30	1.55	1.30	1.55
8	4.00	5.00	4.00	5.00
10	5.90	6.50	5.90	6.50
12	8.65	10.80	8.65	10.80

### QUARTER BENDS WITH R. H. SIDE INLET



J-4222

Size Inches	Size, Inlet Inches	PRICE, EACH	
		Standard	Ex. Hy.
2	2	1.25	1.55
3	2	1.25	1.55
3	3	1.25	1.55
4	2	1.25	1.55
4	3	3.10	3.85
4	4	3.10	3.85
5	2	3.70	4.60
5	3	3.70	4.60
5	4	3.70	4.60
6	2	4.30	5.40
6	3	4.30	5.40
6	4	4.30	5.40

### DOUBLE HUB QUARTER BENDS



J-4224

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Std.	Ex. Hy.		Std.	Ex. Hy.
2	.75	.90	5	1.85	2.30
3	.95	1.15	6	2.45	3.05
4	1.20	1.40			

### BENDS

Sixth



J-4226

Eighth



J-4228

Sixteenth



J-4230

Size In.	PRICE, EACH					
	1/6-BEND		1/8-BEND		1/16-BEND	
	Std.	Ex. Hy.	Std.	Ex. Hy.	Std.	Ex. Hy.
2	.40	.45	.35	.40	.35	.40
3	.60	.75	.45	.55	.50	.70
4	.60	.75	.60	.75	.60	.70
5	1.05	1.25	.80	1.00	.80	1.00
6	1.30	1.55	1.05	1.25	1.00	1.25
8	4.00	5.00	4.00	5.00	4.00	5.00
10	5.90	6.50	5.90	6.50	5.90	6.50
12	8.65	10.80	8.65	10.80	8.65	10.80

### QUARTER BENDS

With Low  
Heel Inlet

J-4232

With High  
Heel Inlet

J-4234

Size Inches	Size, Inlet Inches	PRICE, EACH	
		Standard	Ex. Hy.
2	2	1.25	1.55
3	2	1.25	1.55
3	3	1.25	1.55
4	2	1.25	1.55
4	3	3.10	3.85
4	4	3.10	3.85
5	2	3.70	4.60
5	3	3.70	4.60
5	4	3.70	4.60
6	2	4.30	5.40
6	3	4.30	5.40
6	4	4.30	5.40

### DOUBLE HUB BENDS

Eighth



J-4236

Sixteenth



J-4238

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Std.	Ex. Hy.		Std.	Ex. Hy.
2	.75	.90	5	1.85	2.30
3	.95	1.15	6	2.45	3.05
4	1.20	1.40			

# CAST IRON SOIL PIPE FITTINGS

## LONG QUARTER BENDS

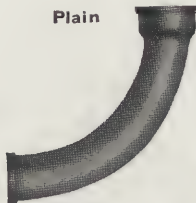


J-4240

Size Inches	Length in Clear Inches	PRICE, EACH	
		Standard	Extra Heavy
2	12	.90	1.10
2	18	1.05	1.30
2	24	1.50	1.85
3	12	1.50	1.85
3	18	1.85	2.30
3	24	2.25	2.75
4	12	1.25	1.55
4	18	1.50	1.85
4	24	2.75	3.40
4	30	3.85	4.80
4	36	4.90	6.15
5	12	3.70	4.60
5	18	4.30	5.40
5	24	4.90	6.15
5	36	5.25	6.55
6	12	4.30	5.40
6	18	5.00	6.15
6	24	5.50	6.90
8	18	7.50	10.00

## REILLY LONG SWEEP BENDS

Plain



J-4244

with  
Foot Rest



J-4246

Size Inches	PRICE, EACH		
	Standard Plain	Extra Heavy	Extra Heavy with Foot Rest
4	2.80	3.50	4.50
5	4.00	5.00	6.25
6	4.80	6.00	7.50
4x2	2.15	2.70	3.70
5x4	2.80	3.50	4.75

## QUARTER] BENDS

Sanitary  
Long  
Sweep



J-4248

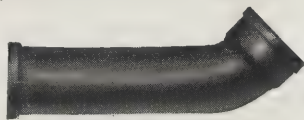
Short Sweep



J-4250

Size Inches	PRICE, EACH			
	LONG SWEEP		SHORT SWEEP	
	Stand- ard	Extra Heavy	Stand- ard	Extra Heavy
2	.75	.90	.60	.75
3	.95	1.15	.90	1.10
4	1.25	1.55	1.15	1.40
5	1.70	2.00	1.55	1.85
6	2.75	3.40	2.50	3.10
7	7.55	9.45	4.80	6.00
8	6.00	7.50	6.80	8.50
10	8.00	10.00	....	....

## LONG EIGHTH BENDS



J-4242

Size Inches	Length in Clear Inches	Standard	Extra Heavy
2	12	.90	1.10
2	18	1.05	1.30
2	24	1.50	1.85
3	12	1.50	1.85
3	18	1.85	2.30
3	24	2.25	2.75
4	12	1.25	1.55
4	18	1.50	1.85
4	24	2.75	3.40
4	30	3.85	4.80
4	36	4.90	6.15
5	12	3.70	4.60
5	18	4.30	5.40
5	24	4.90	6.15
5	36	5.25	6.55
6	12	4.30	5.40
6	18	5.00	6.15
6	24	5.50	6.90
8	18	7.50	10.00

## DOUBLE



J-4252

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2x2	1.50	1.85	4x2	2.80	3.45
3x2	2.45	3.05	4x3	2.80	3.45
3x3	2.55	3.20	4x4	2.80	3.45

## CAST IRON SOIL PIPE FITTINGS

### T BRANCHES

#### STANDARD



J-4254

#### WITH R. H. SIDE INLET



J-4256

#### STANDARD

Size Inches	PRICE, EACH—		Size Inches	PRICE, EACH—	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2x2	.55	.75	6x2	1.80	2.15
3x2	.75	.90	6x3	1.80	2.15
3x3	.85	1.10	6x4	1.80	2.15
4x2	.85	1.10	6x5	2.00	2.45
4x3	1.00	1.25	6x6	2.00	2.45
4x4	1.15	1.40	7	7.00	9.80
5x2	1.20	1.45	8	6.00	9.00
5x3	1.25	1.55	10	10.80	15.10
5x4	1.40	1.70	12	15.10	19.40
5x5	1.65	2.00	15	33.60	42.00

#### WITH R. H. SIDE INLET

Size of Inlets	EXTRAS, ADD TO— ABOVE LIST, EACH		
	Inlets	Brass Trap Screws	Incl. Inlets
2	1.00		1.50
3	1.25		2.00
4	1.50		2.50
5	2.00		3.00
6	2.50		3.50

#### ALL HUB ENDS



J-4258

Size Inches	PRICE, EACH—	
	Standard	Extra Heavy
2	2.25	2.75
3	3.45	4.30
4	4.65	5.85
5	5.65	7.05
6	7.35	9.20

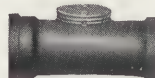
### T BRANCHES

#### TAPPED FOR IRON PIPE



J-4260

#### WITH HANDHOLE AND COVER



J-4262

#### TAPPED FOR IRON PIPE

Size Inches	Thread Inches	PRICE, EACH—	
		Stand- ard	Extra Heavy
2	1 1/4, 1 1/2, 2	.70	.85
3	1 1/4, 1 1/2, 2	.85	1.10
4	1 1/4, 1 1/2, 2	1.00	1.25
5	1 1/4, 1 1/2, 2	1.60	2.00
6	1 1/4, 1 1/2, 2	2.50	3.10

#### WITH HANDHOLE CLEANOUT

Size Inches	PRICE, EACH—		Size Inches	PRICE, EACH—	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2	1.05	1.25	5	2.45	3.05
3	1.70	2.15	6	3.70	4.60
4	1.85	2.30	8	5.00	7.50

### LONG T BRANCHES



J-4264

Size Inches	Length in Clear Inches	PRICE, EACH—	
		Stand- ard	Extra Heavy
2	12	1.20	1.50
2	18	2.00	2.45
2	24	2.25	2.75
2	30	2.45	3.05
2	36	2.70	3.35
3	12	1.45	1.80
3	18	2.60	3.25
3	24	3.10	3.85
3	30	3.55	4.45
3	36	4.05	5.05
4	12	2.80	3.50
4	18	3.50	4.30
4	24	4.10	5.05
4	30	4.65	5.85
4	36	5.35	6.60
5	18	4.20	5.25
5	24	4.95	6.15
5	30	5.70	7.10
5	36	6.60	8.15
6	18	4.90	6.15
6	24	5.80	7.25
6	30	6.80	8.45
6	36	7.70	9.55

## CAST IRON SOIL PIPE FITTINGS

### SANITARY T BRANCHES



J-4266

Size Inches	PRICE, EACH	
	Standard	Extra Heavy
2x2	.55	.75
3x2	.75	.90
3x3	.85	1.10
4x2	.85	1.10
4x3	1.00	1.25
4x4	1.15	1.40
5x2	1.20	1.45
5x3	1.25	1.55
5x4	1.40	1.70
5x5	1.65	2.00
6x2	1.80	2.15
6x3	1.80	2.15
6x4	1.80	2.15
6x5	2.00	2.45
6x6	2.00	2.45
7	7.00	9.80
8	6.00	9.00
10	10.80	15.10
12	15.10	19.40
15	33.60	42.00

### LONG SANITARY T BRANCHES



J-4270

Size Inches	Length in Clear Inches	PRICE, EACH	
		Stand- ard	Extra Heavy
2	12	1.20	1.50
2	18	2.00	2.45
2	24	2.25	2.75
2	30	2.45	3.05
2	36	2.70	3.35
3	12	1.45	1.80
3	18	2.60	3.25
3	24	3.10	3.85
3	30	3.55	4.45
3	36	4.05	5.05
4	12	2.80	3.50
4	18	3.50	4.30
4	24	4.10	5.05
4	30	4.65	5.85
4	36	5.35	6.60
5	18	4.20	5.25
5	24	4.95	6.15
5	30	5.70	7.10
5	36	6.60	8.15
6	18	4.90	6.15
6	24	5.80	7.25
6	30	6.80	8.45
6	36	7.70	9.55
8	36	9.00	....

### SANITARY T BRANCHES

#### R. H. SIDE INLET



J-4268

Size Inches	EXTRAS, ADD TO THE ABOVE LIST, EACH	
	Inlets	Brass Trap Screws Incl. Inlets
2	1.00	1.50
3	1.25	2.00
4	1.50	2.50
5	2.00	3.00
6	2.50	3.50

### SANITARY T BRANCHES

#### TAPPED FOR IRON PIPE



J-4272

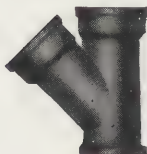
Size Inches	Thread Inches	PRICE, EACH	
		Standard	Extra Heavy
2	1 1/4, 1 1/2, 2	.75	.90
3	1 1/4, 1 1/2, 2	.95	1.10
4	1 1/4, 1 1/2, 2	1.25	1.55
5	1 1/4, 1 1/2, 2	1.85	2.30
6	1 1/4, 1 1/2, 2	2.95	3.70



## CAST IRON SOIL PIPE FITTINGS

### Y AND HALF Y BRANCHES

Y



J-4274

HALF Y

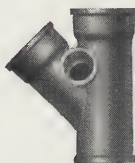


J-4276

Size Inches	PRICE, EACH—		Size Inches	PRICE, EACH—	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2x2	.55	.75	6x2	1.80	2.15
3x2	.75	.90	6x3	1.80	2.15
3x3	.85	1.10	6x4	1.80	2.15
4x2	.85	1.10	6x5	2.00	2.45
4x3	1.00	1.25	6x6	2.00	2.45
4x4	1.15	1.40	7	7.00	9.80
5x2	1.20	1.45	8	6.00	9.00
5x3	1.25	1.55	10	10.80	15.10
5x4	1.40	1.70	12	15.10	19.40
5x5	1.65	2.00	15	33.60	42.00

WITH R. H. SIDE INLET

Y



J-4278

HALF Y



J-4280

—EXTRAS, ADD TO THE  
 ABOVE LIST, EACH—  
 Brass Trap  
 Screws  
 Incl. Inlets

Size Inches	Inlets	
2	1.00	1.50
3	1.25	2.00
4	1.50	2.50
5	2.00	3.00
6	2.50	3.50



J-4282

### INVERTED Y BRANCHES

TAPPED FOR IRON PIPE

Thread, 1¼, 1½ and 2  
 inches.

Size Inches	PRICE, EACH—		Size Inches	PRICE, EACH—	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2	1.40	1.70	5	2.80	3.50
3	2.00	2.45	6	3.40	4.25
4	2.20	2.75		....	....

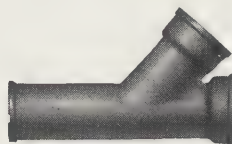
### INVERTED Y BRANCHES



J-4284

Size Inches	PRICE, EACH—		Size Inches	PRICE, EACH—	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2x2	1.00	1.25	5x4	3.10	3.85
3x2	1.40	1.85	5x5	3.40	4.60
3x3	1.40	1.85	6x2	3.70	4.60
4x2	1.70	2.15	6x3	3.70	4.60
4x3	1.70	2.15	6x4	4.95	6.15
4x4	1.70	2.15	6x5	4.95	6.15
5x2	2.45	3.05	6x6	4.95	6.15
5x3	2.45	3.05	...	....	....

### LONG Y BRANCHES



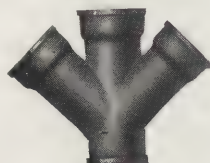
J-4286

Size Inches	Length in Clear Inches	PRICE, EACH—	
		Stand- ard	Extra Heavy
2	12	1.20	1.50
2	18	2.00	2.45
2	24	2.25	2.75
2	30	2.45	3.05
2	36	2.70	3.35
3	12	1.45	1.80
3	18	2.60	3.25
3	24	3.10	3.85
3	30	3.55	4.45
3	36	4.05	5.05
4	12	2.80	3.50
4	18	3.50	4.30
4	24	4.10	5.05
4	30	4.65	5.85
4	36	5.35	6.60
5	18	4.20	5.25
5	24	4.95	6.15
5	30	5.70	7.10
5	36	6.60	8.15
6	18	4.90	6.15
6	24	5.80	7.25
6	30	6.80	8.45
6	36	7.70	9.55

## CAST IRON SOIL PIPE FITTINGS

### DOUBLE Y BRANCHES

#### STANDARD



J-4288

#### WITH SIDE INLETS



J-4290

### DOUBLE HALF Y BRANCHES

#### STANDARD



J-4294

#### WITH SIDE INLET



J-4296

#### STANDARD

Size Inches	PRICE, Stand- ard	EACH Extra Heavy	Size Inches	PRICE, Stand- ard	EACH Extra Heavy
2x2	1.25	1.55	6x2	6.15	7.70
3x2	1.65	2.00	6x3	6.15	7.70
3x3	1.65	2.00	6x4	6.15	7.70
4x2	1.80	2.15	6x5	6.15	7.70
4x3	1.80	2.15	6x6	6.15	7.70
4x4	1.80	2.15	7x7	10.50	14.70
5x2	4.95	6.15	8x8	9.00	13.50
5x3	4.95	6.15	10x10	16.20	22.65
5x4	4.95	6.15	12x10	22.70	29.15
5x5	4.95	6.15	.....	.....	.....

#### WITH SIDE INLET

EXTRAS ADD TO THE  
ABOVE LIST, EACH

Size Inches	Inlets	Brass Trap Screws Incl. Inlets
2	1.00	1.50
3	1.25	2.00
4	1.50	2.50
5	2.00	3.00
6	2.50	3.50

### VENTILATING BRANCHES



J-4292

Size Inches	PRICE, Stand- ard	EACH Extra Heavy	Size Inches	PRICE, Stand- ard	EACH Extra Heavy
2x2	.90	1.10	5x4	4.35	5.40
3x2	1.15	1.40	5x5	4.35	5.40
3x3	1.15	1.40	6x2	6.15	7.70
4x2	1.15	1.40	6x3	6.15	7.70
4x3	1.40	1.85	6x4	6.15	7.70
4x4	1.40	1.85	6x5	6.15	7.70
5x2	4.35	5.40	6x6	6.15	7.70
5x3	4.35	5.40	...	....	....

#### STANDARD

Size Inches	PRICE, Stand- ard	EACH Extra Heavy	Size Inches	PRICE, Stand- ard	EACH Extra Heavy
2x2	1.25	1.55	6x2	6.15	7.70
3x2	1.65	2.00	6x3	6.15	7.70
3x3	1.65	2.00	6x4	6.15	7.70
4x2	1.80	2.15	6x5	6.15	7.70
4x3	1.80	2.15	6x6	6.15	7.70
4x4	1.80	2.15	7x7	10.50	14.70
5x2	4.95	6.15	8x8	9.00	13.50
5x3	4.95	6.15	10x10	16.20	22.65
5x4	4.95	6.15	12x10	22.70	29.15
5x5	4.95	6.15	.....	.....	.....

#### WITH SIDE INLET

EXTRAS, ADD TO THE  
ABOVE LIST, EACH

Size Inches	Inlets	Brass Trap Screws Incl. Inlets
2	1.00	1.50
3	1.25	2.00
4	1.50	2.50
5	2.00	3.00
6	2.50	3.50

### VENTILATING BRANCHES TAPPED FOR IRON PIPE



J-4298

Size Inches	Thread Inches	PRICE, EACH Stand- ard	Extra Heavy
2	1 1/4, 1 1/2, 2	1.40	1.70
3	1 1/4, 1 1/2, 2	2.00	2.45
4	1 1/4, 1 1/2, 2	2.20	2.75
5	1 1/4, 1 1/2, 2	2.80	3.50
6	1 1/4, 1 1/2, 2	3.40	4.25

## CAST IRON SOIL PIPE FITTINGS

### CROSSES

#### STANDARD



J-4300

#### WITH SIDE INLET



J-4302

### SANITARY CROSSES

#### STANDARD



J-4306

#### WITH SIDE INLET



J-4308

#### STANDARD

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2x2	1.25	1.55	6x2	6.15	7.70
3x2	1.65	2.00	6x3	6.15	7.70
3x3	1.65	2.00	6x4	6.15	7.70
4x2	1.80	2.15	6x5	6.15	7.70
4x3	1.80	2.15	6x6	6.15	7.70
4x4	1.80	2.15	7	10.50	14.70
5x2	4.95	6.15	8	9.00	13.50
5x3	4.95	6.15	10	16.20	22.65
5x4	4.95	6.15	12x10	22.70	29.15
5x5	4.95	6.15	.....	.....	.....

#### WITH SIDE INLET

#### EXTRAS, FOR INLET TO BE ADDED TO ABOVE LISTS

Size Inches	Price Each	Size Inches	Price Each
2	1.00	5	2.00
3	1.25	6	2.50
4	1.50	..	....

#### STANDARD

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2x2	1.25	1.55	5x5	4.95	6.15
3x2	1.65	2.00	6x2	6.15	7.70
3x3	1.65	2.00	6x3	6.15	7.70
4x2	1.80	2.15	6x4	6.15	7.70
4x3	1.80	2.15	6x5	6.15	7.70
4x4	1.80	2.15	6x6	6.15	7.70
5x2	4.95	6.15	8	9.00	13.50
5x3	4.95	6.15	10	16.20	22.65
5x4	4.95	6.15	12x10	22.70	29.15

#### WITH SIDE INLET

#### EXTRAS, FOR INLET TO BE ADDED TO ABOVE LISTS

Size Inches	Price Each	Size Inches	Price Each
2	1.00	5	2.00
3	1.25	6	2.50
4	1.50	..	....

### TAPPED FOR IRON PIPE



J-4304

### TAPPED FOR IRON PIPE



J-4310

Size Inches	Thread Inches	PRICE, EACH	
		Stand- ard	Extra Heavy
2	1 1/4, 1 1/2, 2	1.15	1.40
3	1 1/4, 1 1/2, 2	1.25	1.55
4	1 1/4, 1 1/2, 2	1.40	1.70
5	1 1/4, 1 1/2, 2	2.25	2.80
6	1 1/4, 1 1/2, 2	3.45	4.30

Size Inches	Thread Inches	PRICE, EACH	
		Stand- ard	Extra Heavy
2	1 1/4, 1 1/2, 2	1.25	1.55
3	1 1/4, 1 1/2, 2	1.50	1.85
4	1 1/4, 1 1/2, 2	1.75	2.15
5	1 1/4, 1 1/2, 2	2.75	3.40
6	1 1/4, 1 1/2, 2	4.10	5.10

## CAST IRON SOIL PIPE FITTINGS

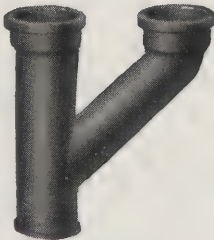
### COMBINATION Y AND EIGHTH BENDS



J-4312

Size In.	PRICE, EACH Stand- ard	PRICE, EACH Extra Heavy	Size In.	PRICE, EACH Stand- ard	PRICE, EACH Extra Heavy
2x2	1.05	1.30	5x4	3.70	4.60
3x2	1.70	2.15	5x5	3.70	4.60
3x3	1.70	2.15	6x2	5.55	6.90
4x2	1.70	2.15	6x3	5.55	6.90
4x3	1.70	2.15	6x4	5.55	6.90
4x4	1.70	2.15	6x5	5.55	6.90
5x2	3.70	4.60	6x6	5.55	6.90
5x3	3.70	4.60	...	....	....

### UPRIGHT Y BRANCHES



J-4314

Size In.	PRICE, EACH Stand- ard	PRICE, EACH Extra Heavy	Size In.	PRICE, EACH Stand- ard	PRICE, EACH Extra Heavy
2x2	1.85	2.30	5x4	4.90	6.15
3x2	1.85	2.30	5x5	5.50	6.90
3x3	1.85	2.30	6x2	4.90	6.15
4x2	1.85	2.30	6x3	4.90	6.15
4x3	3.10	3.85	6x4	5.50	6.90
4x4	3.10	3.85	6x5	6.15	7.70
5x2	3.70	4.60	6x6	7.35	9.20
5x3	4.35	5.40	...	....	....

### DOUBLE INVERTED Y BRANCHES



J-4316

Size In.	PRICE, EACH	
	Standard	Ex. Hy.
2x2	2.45	3.05
3x2	3.10	3.85
3x3	3.10	3.85
4x2	3.70	4.60
4x3	3.70	4.60
4x4	3.70	4.60

### T AND Y BRANCHES

#### Reducing Sanitary T Branch



J-4318

#### Special Reducing Y Branch



J-4320

### REDUCING SANITARY T BRANCHES

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Std.	Ex. Hy.		Std.	Ex. Hy.
3x2x3	2.50	3.15	5x4x5	3.80	4.75
4x2x4	3.00	3.70	6x4x4	4.45	5.55
4x3x4	2.95	3.70	6x4x5	4.60	5.75
5x4x4	3.80	4.75	6x4x6	4.60	5.75

### SPECIAL REDUCING Y BRANCHES

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Std.	Ex. Hy.		Std.	Ex. Hy.
3x2x3	2.50	3.15	6x4x5	4.60	5.75
4x2x4	2.95	3.70	6x5x4	4.60	5.75
4x3x4	2.95	3.70	6x5x5	4.60	5.75
5x4x4	3.80	4.75	6x4x6	4.60	5.75
5x4x5	4.60	5.75	6x5x6	4.60	5.75
6x4x4	4.45	5.55	.....	....	....



## CAST IRON SOIL PIPE FITTINGS

### OFFSETS



J-4322

Size In.	PRICE, EACH Std.	PRICE, EACH Ex. Hy.	Size In.	PRICE, EACH Std.	PRICE, EACH Ex. Hy.
2x 2	.60	.75	4x20	2.60	4.30
2x 4	.60	.75	4x22	3.10	4.60
2x 6	.75	.90	4x24	3.70	5.05
2x 8	.75	.90	4x26	4.35	5.45
2x10	1.00	1.25	5x 2	2.45	3.05
2x12	1.15	1.40	5x 4	2.45	3.05
2x14	1.25	1.55	5x 6	2.65	3.40
2x16	1.35	1.70	5x 8	3.00	3.80
2x18	1.70	2.15	5x10	3.50	4.00
2x20	2.00	2.45	5x12	3.65	4.45
2x22	2.20	2.75	5x14	5.05	6.30
2x24	2.45	3.05	5x16	5.35	6.60
2x26	2.70	3.35	5x18	5.85	7.25
3x 2	.95	1.15	5x20	6.15	7.55
3x 4	1.00	1.25	5x22	6.30	7.85
3x 6	1.10	1.40	5x24	6.50	8.15
3x 8	1.25	1.55	5x26	6.75	8.45
3x10	1.50	1.85	6x 2	3.35	4.15
3x12	1.65	2.00	6x 4	3.35	4.15
3x14	1.90	2.30	6x 6	3.35	4.15
3x16	2.10	2.60	6x 8	3.70	4.60
3x18	2.30	2.90	6x10	4.30	5.40
3x20	2.75	3.40	6x12	4.95	6.15
3x22	3.10	3.85	6x14	6.15	7.70
3x24	3.70	4.60	6x16	6.75	8.30
3x26	4.15	5.20	6x18	7.10	8.75
4x 2	1.00	1.25	6x20	7.40	9.20
4x 4	1.00	1.25	6x22	7.70	9.65
4x 6	1.10	1.40	6x24	8.10	10.10
4x 8	1.25	1.55	6x26	8.45	10.55
4x10	1.50	1.85	7x 4	10.10	12.60
4x12	1.60	2.00	7x 8	12.30	15.40
4x14	1.90	2.45	8x 4	8.00	11.00
4x16	2.00	3.40	8x 6	9.60	12.00
4x18	2.30	3.55	8x 8	10.40	13.00

Add to above Lists for 2-inch Vent  
or Heel or Side Inlet.....each **1.00**

### INCREASERS



J-4324

#### HUB END TO GOVERN PRICE

Size In.	PRICE, EACH Std.	PRICE, EACH Ex. Hy.	Size In.	PRICE, EACH Std.	PRICE, EACH Ex. Hy.
2x3	.90	1.10	5x 6	2.45	3.05
2x4	.90	1.10	5x 8	2.45	3.05
2x5	1.25	1.55	5x10	2.65	3.35
2x6	1.85	2.30	6x 7	2.25	3.85
3x4	1.85	2.30	6x 8	2.00	5.00
3x5	1.85	2.30	6x10	3.40	4.25
3x6	1.85	2.30	7x 8	4.30	5.40
4x5	1.85	2.30	8x10	4.35	7.00
4x6	1.85	2.30	8x12	7.35	9.20
4x8	1.85	2.30	10x12	9.20	11.50

### INCREASERS

#### TAPPED FOR IRON PIPE

Increaser



J-4326

Short  
Increaser



J-4328

Size In.	Tapped In.	PRICE, EACH			
		INCREASER		SHORT INCREASER	
		Std.	Ex. Hy.	Std.	Ex. Hy.
2	1 1/4	.60	.75	.75	.90
2	1 1/2	.60	.75	.75	.90
3	1 1/2	1.40	1.70	.90	1.10
4	1 1/4	1.50	1.85	1.00	1.25
4	1 1/2	1.50	1.85	1.00	1.25
5	1 1/2	2.10	2.45	1.25	1.55
3	2	1.40	1.70	.90	1.10
4	2	1.50	1.85	1.00	1.25
5	2	2.10	2.45	1.25	1.55
6	2	2.40	3.00	1.85	2.30
4	3	1.85	2.30	1.40	1.75
5	3	2.10	2.60	1.60	2.00
5	4	2.50	3.10	....	....
6	4	2.90	3.60	....	....
6	5	3.30	4.10	....	....

## CAST IRON SOIL PIPE FITTINGS

### LONG INCREASERS FOR CALKING



J-4330

Length Inches	PRICE EACH	
	Standard	Extra Heavy
<b>2x3 INCHES</b>		
30	1.60	2.00
<b>2x4 INCHES</b>		
24	1.25	1.55
30	1.65	2.00
36	2.00	2.45
48	2.50	3.10
<b>3x4 INCHES</b>		
12	1.25	1.55
24	2.00	2.45
<b>3x5 INCHES</b>		
24	2.00	2.45
<b>4x5 INCHES</b>		
12	1.60	2.00
24	2.30	2.85
30	2.00	2.45
36	3.70	4.60
<b>4x6 INCHES</b>		
24	3.70	4.60
30	3.70	4.60
36	4.30	5.40
48	4.95	6.15
<b>5x6 INCHES</b>		
12	1.95	2.45
30	5.45	6.80
<b>5x7 INCHES</b>		
48	12.30	15.40

### LONG INCREASERS TAPPED FOR IRON PIPE



J-4332

Tapped Spigot Inches	Tapped I.P. Thread Inches	Length Inches	PRICE EACH	
			Stand- ard	Extra Heavy
4	1 1/2	24	2.25	2.75
4	2	24	2.25	2.75
4	2	30	2.40	3.00
4	2	36	2.60	3.25
4	2	48	3.00	3.75

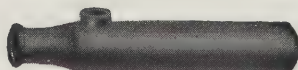
### EXTENSION PIECES



J-4334

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Std.	Ex. Hy.		Std.	Ex. Hy.
2x 4	.60	.75	4x18	2.45	3.05
2x 6	.60	.75	4x20	2.95	3.70
2x 8	.75	.90	4x22	3.40	4.30
2x10	.90	1.10	4x24	3.70	4.60
2x12	1.00	1.25	5x 4	1.85	2.30
2x14	1.15	1.40	5x 6	1.85	2.30
2x16	1.25	1.55	5x 8	2.10	2.60
2x18	1.40	1.70	5x10	2.30	2.90
2x20	1.50	1.85	5x12	2.45	3.05
2x22	2.00	2.45	5x14	2.70	3.40
2x24	2.50	3.05	5x16	2.95	3.70
3x 4	1.00	1.25	5x18	3.20	4.00
3x 6	1.00	1.25	5x20	3.70	4.60
3x 8	1.10	1.40	5x22	4.20	5.25
3x10	1.25	1.55	5x24	4.70	5.85
3x12	1.50	1.85	6x 4	2.45	3.05
3x14	1.75	2.15	6x 6	2.45	3.05
3x16	1.95	2.45	6x 8	2.70	3.40
3x18	2.20	2.75	6x10	2.95	3.70
3x20	2.45	3.05	6x12	3.20	4.00
3x22	2.75	3.40	6x14	3.45	4.30
3x24	2.95	3.70	6x16	3.90	4.90
4x 4	1.25	1.55	6x18	4.45	5.55
4x 6	1.25	1.55	6x20	4.90	6.15
4x 8	1.40	1.70	6x22	5.50	6.90
4x10	1.50	1.85	6x24	6.15	7.70
4x12	1.70	2.00	6x30	7.85	9.80
4x14	1.85	2.30	6x36	8.00	10.00
4x16	2.15	2.60	.....	.....	.....

### LONG INCREASERS TAPPED ONE SIDE



J-4336

Size Inches	Length Inches	Size Outlet Thread Inches	PRICE, EACH	
			Std.	Ex. Hy.
2x4	24	1 1/2 or 2	2.45	3.05
2x4	48	1 1/2	3.30	4.15
3x4	24	1 1/2	2.00	2.50
4x5	30	1 1/2 or 2	3.00	3.75
4x6	30	2	3.40	4.25
4x6	36	1 1/2	3.60	4.50
4x6	48	2	5.05	6.30
5x6	30	2	3.90	4.85
5x6	36	2	4.20	5.25

## CAST IRON SOIL PIPE FITTINGS

VENT CAP



J-4338

VENT CAP  
WITH SET SCREW

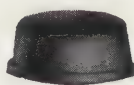
J-4340

REDUCER



J-4346

PLUG



J-4348

### VENT CAPS

Size.....inches	2	3	4
Price, Standard..each	.60	.70	.90
Size.....inches	5	6	....
Price, Standard..each	1.85	2.00	....

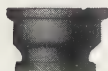
### VENT CAPS WITH SET SCREWS

Will fit either standard or extra heavy soil pipe. Two of the prongs are each provided with a small lug, which can easily be knocked off if cap is to be used with extra heavy pipe.

Size.....inches	2	3	4
Price.....each	.40	.40	.45
Size.....inches	5	6	....
Price.....each	.50	.60	....

DOUBLE  
HUB

J-4344

SINGLE  
HUB

J-4342

### SINGLE HUBS

Size Inches	PRICE, EACH Stand- ard	Extra Heavy	Size Inches	PRICE, EACH Stand- ard	Extra Heavy
2	.50	.60	6	1.85	2.45
3	.65	.90	8	2.50	3.50
4	.70	.90	10	3.90	4.85
5	1.25	1.55	..	....	....

### DOUBLE HUBS

Size Inches	PRICE, EACH Stand- ard	Extra Heavy	Size Inches	PRICE, EACH Stand- ard	Extra Heavy
2	.40	.45	6	1.15	1.55
3	.50	.75	8	2.50	3.50
4	.60	.75	10	3.80	4.85
5	1.00	1.25	12	5.40	9.20

### REDUCERS

Size Inches	PRICE, EACH Stand- ard	Extra Heavy	Size Inches	PRICE, EACH Stand- ard	Extra Heavy
3x2	.40	.45	6x3	.85	1.00
4x2	.40	.45	6x4	.85	1.00
4x3	.45	.55	6x5	.85	1.00
5x2	.60	.75	8x6	2.50	4.25
5x3	.60	.75	10x8	4.85	6.20
5x4	.60	.75	12x10	6.76	10.80
6x2	.60	.75	15x12	13.30	22.30

### PLUGS

Size Inches	PRICE, EACH Stand- ard	Extra Heavy	Size Inches	PRICE, EACH Stand- ard	Extra Heavy
2	.25	.30	8	1.20	1.50
3	.40	.45	10	2.15	3.25
4	.45	.60	12	3.25	4.30
5	.60	.75	15	5.60	7.00
6	.75	.90	..	....	....

SLEEVE



J-4350

THIMBLE



J-4352

### SLEEVES

Size Inch	PRICE, EACH Stand- ard	Extra Heavy	Size Inches	PRICE, EACH Stand- ard	Extra Heavy
2	.60	.75	6	1.85	2.30
3	.75	.90	8	2.50	3.50
4	.75	.90	10	3.80	4.85
5	1.25	1.55	12	5.40	9.20

### THIMBLES

Size Inches	PRICE, EACH Stand- ard	Extra Heavy	Size Inches	PRICE, EACH Stand- ard	Extra Heavy
2	.60	.75	6	1.85	2.30
3	.75	.90	8	2.50	3.50
4	.75	.90	10	3.80	4.85
5	1.25	1.55	12	5.40	9.20



# CAST IRON SOIL PIPE FITTINGS

## PLAIN TRAPS

FULL S



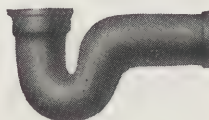
J-4354

THREE-QUARTER S



J-4356

HALF S



J-4358

Size.....	inches	2	3	4	5	6	8
Price, Standard.....	each	.90	1.15	1.50	4.30	4.95	10.00
" Extra Heavy.....	"	1.10	1.40	1.85	5.40	6.15	13.00

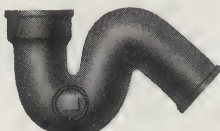
## TRAPS WITH BRASS TRAP SCREW

FULL S



J-4360

THREE-QUARTER S



J-4362

HALF S



J-4364

Size.....	inches	2	3	4	5	6	8
Price, Standard.....	each	2.40	2.65	3.00	6.80	7.45	12.50
" Extra Heavy.....	"	2.60	2.90	3.35	7.90	8.65	15.50

## TRAPS WITH TOP VENT

FULL S



J-4366

THREE-QUARTER S



J-4368

HALF S



J-4370

Size.....	inches	2	3	3	4	4	4	5	5	5	5	6	6	6	6	6
Vent.....	"	2	2	3	2	3	4	2	3	4	5	2	3	4	5	6
Price, Standard.....	each	1.20	1.35	1.35	2.20	2.20	2.20	4.00	4.00	4.00	4.00	4.80	4.80	4.80	4.80	4.80
" Extra Heavy.....	"	1.50	1.70	1.70	2.75	2.75	2.75	5.00	5.00	5.00	5.00	6.00	6.00	6.00	6.00	6.00

## TRAPS WITH TOP VENT AND BRASS TRAP SCREW

FULL S



J-4372

THREE-QUARTER S



J-4374

HALF S



J-4376

Size.....	inches	2	3	3	4	4	4	5	5	5	5	6	6	6	6	6
Vent.....	"	2	2	3	2	3	4	2	3	4	5	2	3	4	5	6
Price, Standard.....	each	2.70	2.85	2.85	3.70	3.70	3.70	6.50	6.50	6.50	6.50	7.30	7.30	7.30	7.30	7.30
" Extra Heavy.....	"	3.00	3.20	3.20	4.25	4.25	4.25	7.50	7.50	7.50	7.50	8.50	8.50	8.50	8.50	8.50

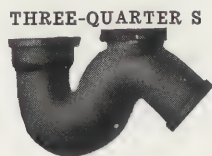


## CAST IRON SOIL PIPE FITTINGS

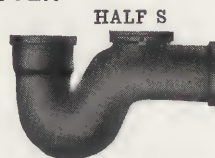
### TRAPS WITH HANDHOLE AND COVER



J-4378



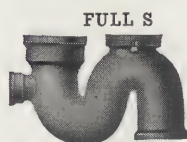
J-4380



J-4382

Size.....	inches	2	3	4	5	6	8
Price, Standard.....	each	1.25	1.85	2.50	4.95	5.55	10.75
" Extra Heavy.....	"	1.55	2.30	3.10	6.15	6.90	13.75

### TRAPS WITH HANDHOLE AND COVER AND 2-INCH HEEL INLET



J-4384



J-4386



J-4388

Size.....	inches	2	3	4	5	6
Price, Standard.....	each	2.25	2.85	3.50	5.95	6.55
" Extra Heavy.....	"	2.55	3.30	4.10	7.15	7.90

### TRAPS WITH HANDHOLE AND COVER AND 2-INCH SIDE INLET



J-4390



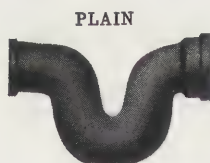
J-4392



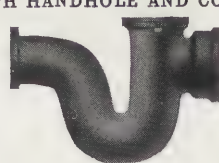
J-4394

Size.....	inches	2	3	4	5	6
Price, Standard.....	each	2.25	2.85	3.50	5.95	6.55
" Extra Heavy.....	"	2.55	3.30	4.10	7.15	7.90

### RUNNING TRAPS



J-4396

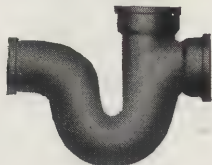


J-4398

Description.....	PLAIN							WITH HANDHOLE AND COVER						
Size.....inches	2	3	4	5	6	8		2	3	4	5	6	8	
Price, Standard, ea.	.90	1.15	1.50	4.30	4.95	10.00		1.25	1.85	2.50	4.95	5.55	10.75	
" Ex. Hvy. "	1.10	1.40	1.85	5.40	6.15	13.00		1.55	2.30	3.10	6.15	6.90	13.75	

## CAST IRON SOIL PIPE FITTINGS

**Running Trap with Hub Vent**



**J-4400**

**Running Trap with Double Hub Vent**



**J-4402**

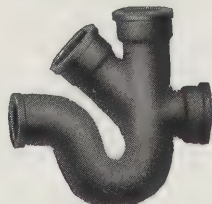
### RUNNING TRAPS WITH HUB VENT

Size.....inches	2	3	3	4	4	4	5	5
Vent....."	2	2	3	2	3	4	2	3
Price, Standard....each	1.20	1.35	1.35	2.20	2.20	2.20	4.00	4.00
" Extra Heavy...."	1.50	1.70	1.70	2.75	2.75	2.75	5.00	5.00
Size.....inches	5	5	6	6	6	6	6	7
Vent....."	4	5	2	3	4	5	6	6
Price, Standard....each	4.00	4.00	4.80	4.80	4.80	4.80	4.80	14.00
" Extra Heavy...."	5.00	5.00	6.00	6.00	6.00	6.00	6.00	16.80
Size.....inches	8	8	8	10	10	12	15	....
Vent....."	4	6	8	6	8	6	6	....
Price, Standard....each	11.60	12.00	12.00	19.45	23.00	29.35	67.00	....
" Extra Heavy...."	14.50	15.00	15.00	25.90	29.00	36.70	84.00	....

### RUNNING TRAPS WITH DOUBLE HUB VENT

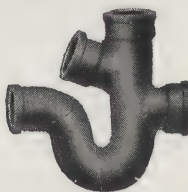
Size.....inches	2	3	3	4	4	4	5	5
Vent....."	2	2	3	2	3	4	2	3
Price, Standard....each	1.60	1.80	1.80	2.60	2.60	2.60	4.80	4.80
" Extra Heavy...."	2.00	2.25	2.25	3.25	3.25	3.25	6.00	6.00
Size.....inches	5	5	6	6	6	6	6	7
Vent....."	4	5	2	3	4	5	6	6
Price, Standard....each	4.80	4.80	5.60	5.60	5.60	5.60	5.60	16.80
" Extra Heavy...."	6.00	6.00	7.00	7.00	7.00	7.00	7.00	19.60
Size.....inches	8	8	8	10	12	12	15	....
Vent....."	4	6	8	6	6	8	15	....
Price, Standard....each	12.80	14.00	14.00	21.60	29.35	31.10	....	....
" Extra Heavy...."	16.00	17.00	17.00	28.10	36.70	38.90	150.00	....

**Running Trap with Y Branch and Vent**



**J-4404**

**Running Trap with Half Y Branch and Vent**

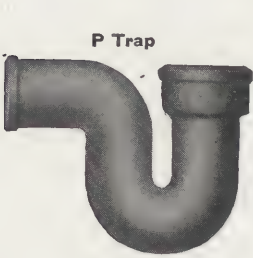


**J-4406**

### RUNNING TRAPS WITH Y OR HALF Y BRANCH AND VENT

Size.....inches	4x4	5x4	5x5	6x4	6x5	6x6	8x6
Price, Standard.....each	4.95	8.60	8.60	6.50	9.85	12.30	13.80
" Extra Heavy...."	6.15	10.75	10.75	8.00	12.30	15.35	17.25

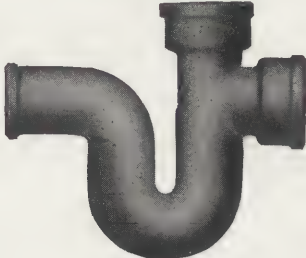
CAST IRON SOIL FITTINGS AND DRAINS  
EXTRA HEAVY DEEP SEAL TRAPS  
Running Trap with Vent



P Trap

J-4408

Depth of seal, 5 inches.



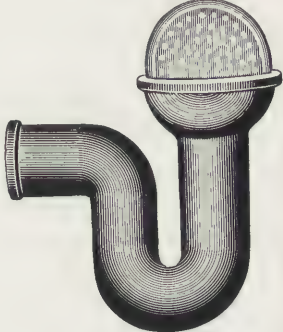
J-4410

Size .....	inches	2	3	4	5	6
Price, P Trap .....	each	1.55	2.20	3.15	4.40	5.90
" Running Trap with 2-inch Vent .....	"	2.00	2.50			
" " " " 4 " " .....	"			3.50	5.50	6.50

OHIO CELLAR DRAINS  
With Long 3/4 S Trap



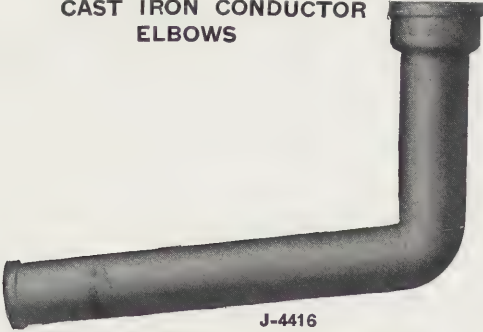
J-4412



J-4414

Size outlet, 4 inches; size bowl, 8 inches; depth seal, 6 inches.  
Price, with Long 3/4 S Trap ..... each  
" " P Trap .....

CAST IRON CONDUCTOR  
ELBOWS



J-4416

Price, 4-inch Extra Heavy ..... each 4.75



## CAST IRON SOIL PIPE FITTINGS

### CLEANOUT T'S AND Y'S

Sanitary T Cleanout  
Trap Screw on Main



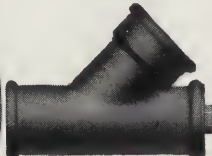
J-4418

T Cleanout Trap Screw  
on Branch



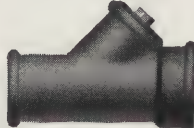
J-4420

Y Cleanout Trap Screw  
on Main



J-4422

Y Cleanout Trap Screw  
on Branch



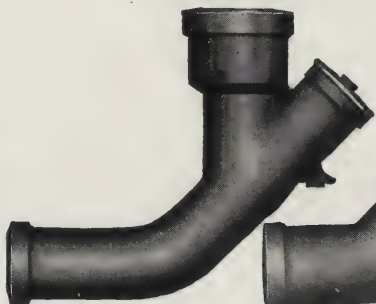
J-4424

Size.....	inches	2	3	4	5	6
Price Sanitary "T" Cleanouts, Trap Screw on Main, Standard.....	each	1.50	1.95	2.45	4.30	4.90
" " " " " " " " Extra Heavy.....	"	1.85	2.45	3.05	5.40	6.15
" " " " Cleanouts, Trap Screw on Branch, Standard.....	"	1.50	1.70	1.70	3.25	3.70
" " " " " " " " Extra Heavy.....	"	1.85	2.15	2.15	4.00	4.60
" " " " Trap Screw on Main or Branch, Standard.....	"	1.40	2.00	2.45	4.30	4.95
" " " " " " " " Extra Heavy.....	"	1.85	2.45	3.05	5.40	6.15

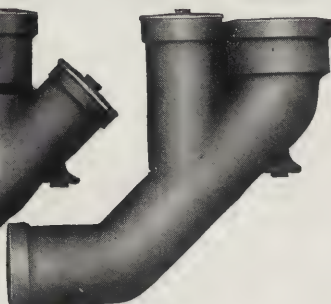
Blake Y Fittings  
With Back Cleanout With Front Cleanout



J-4426



J-4428



J-4430

Combination Y and Eighth  
Bend Trap Screw on Main



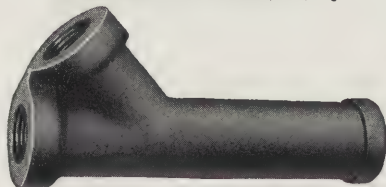
### COMBINATION Y AND EIGHTH BENDS

Size.....	inches	2	3	4	5	6
Price, with Trap Screw on Main, Standard.....	each	1.85	2.45	3.10	4.95	6.15
" " " " " " " " Extra Heavy.....	"	2.30	3.05	3.85	6.15	7.70

### BLAKE Y FITTINGS

Size.....	inches	2	4	2	4
Price, with So-Easy-to-Remove Cover.....	each	3.50	6.50	4.00	7.50
" " Brass Screw Plug Cover.....	"	4.00	7.00	4.70	8.00

### MILWAUKEE TAPPED Y



J-4432

Size.....	inches	1½	2	Size.....	inches	2
Price, Extra Heavy.....	each			Price, Extra Heavy.....	each	

### CAST IRON DALE NIPPLE



J-4434



## CAST IRON SOIL PIPE FITTINGS

### SISSON INSERTABLE JOINTS



J-4436

With this fitting a most satisfactory connection can be made and labor and expense saved when a leak is discovered in a pipe or fitting already connected.

**DIRECTIONS.**—Cut out of soil pipe the length of fitting it is desired to insert and  $11\frac{1}{2}$  inches for this joint. Slip the lead ring which accompanies every joint, over the pipe above, push the joint up as far as possible and drop this joint down into it. The lead ring will drop into the joint and rest upon the shoulders inside. Put in the packing and the work is done.

Size Inches	PRICE, EACH	
	Standard	Extra Heavy
2	1.40	1.50
3	1.50	1.70
4	1.80	2.00
5	2.10	2.30
6	2.60	2.80

### TRAP COVERS

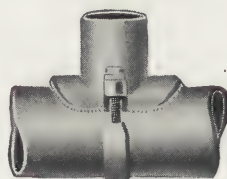


J-4438

Size Inches	PRICE, EACH	
	Standard	Extra Heavy
2	.25	.30
3	.30	.35
4	.40	.50
5	.45	.55
6	.55	.65
8	.90	1.05
10	1.30	1.60

### CONNOLLY SADDLE HUBS

#### T SADDLE HUB



J-4440

Size Inches	PRICE, EACH	
	Standard	Extra Heavy
2x2	.75	.95
3x2	.80	1.00
3x3	.80	1.00
4x2	.80	1.00
4x3	.90	1.10
4x4	.90	1.10
5x2	.90	1.10
5x3	.95	1.15
5x4	1.00	1.25
5x5	1.00	1.25
6x2	1.00	1.25
6x3	1.00	1.25
6x4	1.00	1.25
6x5	1.05	1.30
6x6	1.15	1.40

#### Y SADDLE HUB



J-4442

Size Inches	PRICE, EACH	
	Standard	Extra Heavy
2x2	.80	1.00
3x2	.90	1.10
3x3	.90	1.10
4x2	.90	1.10
4x3	.95	1.15
4x4	.95	1.15
5x2	.95	1.15
5x3	1.00	1.25
5x4	1.05	1.30
5x5	1.05	1.30
6x2	1.15	1.40
6x3	1.15	1.40
6x4	1.15	1.40
6x5	1.25	1.55
6x6	1.25	1.55

## CAST IRON SOIL PIPE FITTINGS

### PLAIN PIPE BANDS



J-4444

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Std.	Ex. Hy.		Std.	Ex. Hy.
2	.90	1.10	5	1.35	1.70
3	1.00	1.25	6	1.60	2.00
4	1.15	1.40	..	....	....

### PIPE BANDS

#### With T Branch



J-4446

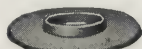
#### With Y Branch



J-4448

Size In.	PRICE, EACH		Size Inches	PRICE, EACH	
	Std.	Ex. Hy.		Std.	Ex. Hy.
2x2	1.05	1.30	5x4	1.75	2.15
3x2	1.20	1.45	5x5	1.85	2.30
3x3	1.20	1.45	6x2	1.95	2.45
4x2	1.30	1.60	6x3	1.95	2.45
4x3	1.35	1.70	6x4	2.10	2.60
4x4	1.50	1.85	6x5	2.20	2.75
5x2	1.60	2.00	6x6	2.50	3.10
5x3	1.60	2.00	...	....	....

#### Floor Plate



J-4450

#### Pipe Rest



J-4452

### FLOOR PLATES

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2	.40	.50	5	.80	1.00
3	.60	.75	6	1.00	1.25
4	.75	.90	..	....	....

### PLAIN PIPE RESTS

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
2	.30	.40	6	.95	1.15
3	.40	.45	8	1.75	2.25
4	.40	.45	10	2.15	3.25
5	.75	.90	..	....	....

### PIPE HOOKS

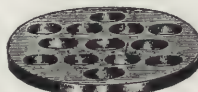


J-4454

Size In.	Price Each	Size In.	Price Each
2	.08	5	.16
3	.11	6	.20
4	.13	..	...

### CAST IRON GRATES

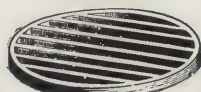
#### Round Hole



J-4456

Size Pipe, In.	Diam. Grate In.
2	2 5/8
3	3 5/8
4	4 5/8
5	5 5/8
6	6 3/4
8	8 3/4
10	10 3/4

#### Bar Pattern



J-4458

PRICE, EACH	
Rd. Hole	Bar Pat.
.10	.10
.12	.12
.15	.15
.20	.20
.25	.25
.40	.45
.75	.90

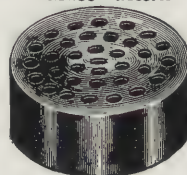
#### With Legs



J-4460

Size Soil Pipe Inches	Diam. Grate Inches
2	2 5/8
3	3 5/8
4	4 5/8
5	5 5/8
6	6 3/4
8	8 3/4
10	10 3/4

#### Basket Pattern



J-4462

PRICE, EACH	
With Legs	Basket Pattern
.12	.15
.14	.20
.18	.25
.25	.30
.30	.35
.45	.55
.80	.90

### GRATES FOR SEWER PIPE

Size Pipe In.	Diam. Grate In.	PRICE, EACH	
		Round Hole	With Legs
2	3	.08	...
3	4	.10	...
4	5 1/8	.15	.20
5	6 1/4	.20	.25
6	7 1/2	.30	.35
8	9 3/4	.55	.60
9	10 3/4	.90	.75
10	11 5/8	1.15	.90
12	14	1.50	1.10

## CAST IRON CLOSET BENDS

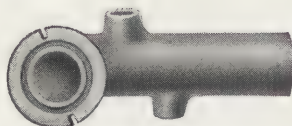
### 4-INCH ADJUSTABLE CLOSET BENDS

Plain

Tapped



J-4464

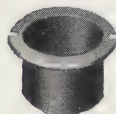


J-4466

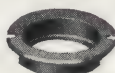
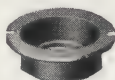
Length of Bend Center to End.....	inches	15½
Price, Plain.....	each	3.90
“ with 2 1½-inch Offset Tappings.....	“	4.60
“ 2 1½ “ Y Tappings.....	“	4.80

2-inch tapping can be furnished to order.

Prices include one 2-inch deep iron slip collar with each bend.



J-4468



#### SLIP COLLARS ONLY

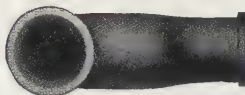
#### FOR 4-INCH ADJUSTABLE CLOSET BENDS

Height inches	2	3	4	5	6
Price...each					

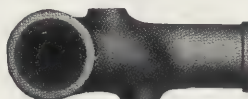
### HUB CLOSET BENDS

Plain

Tapped



J-4470



J-4472

Length of Bend, Center to End.....	inches	14	18
Price, Plain.....	each	2.50	3.25
“ with 2 1½-inch Offset Tappings.....	“	2.80	3.75

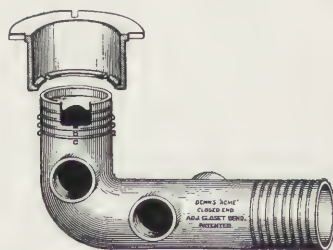
2-inch tappings can be furnished to order.

### MILWAUKEE ADJUSTABLE CLOSET BENDS

Extra long inlet with 2-inch vent opening above crown. Tapped 2 inches on one or both sides as ordered.

Size.....	inches	4x15½
Price.....	each	5.50

Can be furnished without vent opening when so ordered.



J-4474



J-4476

### CAST IRON FLOOR FLANGES TAPPED

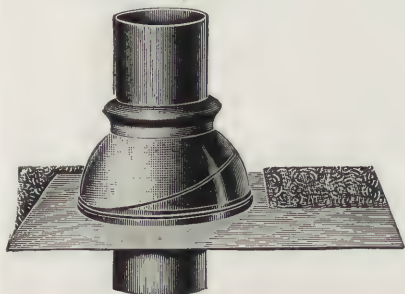
Price, Threaded 4-inch Female I. P.....	each	....
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## ROOF FLASHES

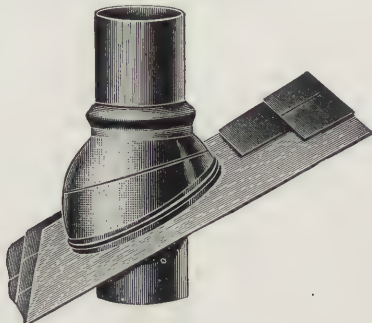
### BULLARD ADJUSTABLE

APPLIED ON FLAT ROOF



J-4478

APPLIED ON PITCHED ROOF



J-4480

Adaptable to any roof from flat to 45 degrees pitch. No solder is required.

It consists of a two-piece steel or copper ball joint, a flange apron and a lead collar. The three flanged pieces are stamped out of 26 gauge cold-rolled steel or 16-ounce copper with a lead collar at the top for caulking.

#### GALVANIZED STEEL

Size.....inches	1¼	1½	2	3	4	5	6
Price.....per dozen	30.00	30.00	34.00	38.00	40.00	57.00	100.00

#### COPPER

Size.....inches	1¼	1½	2	3	4	5	6
Price.....per dozen	30.00	30.00	34.00	38.00	40.00	57.00	100.00

#### MIDLAND LEAD

FULL VIEW



J-4482

SECTIONAL VIEW



These flashings are entirely of lead in one piece, the neck and base being molded at the same time, thus eliminating any possible chance of a leak.

The base or sheet is heavier than 4-pound sheet lead.

The base is larger than usual, permitting two rows of shingles to cover the upper part. The angle flashing will fit any pitch of roof.

The equipment for producing this flashing has been fully protected by United States letters patent.

Size.....inches	1¼	1½	2	2½	3	4	5	6
Price.....each	1.25	1.30	1.50	1.60	1.70	2.00	3.00	4.30

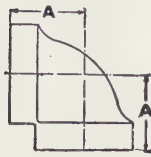


## CAST IRON DRAINAGE FITTINGS

### SCREWED FOR WROUGHT PIPE

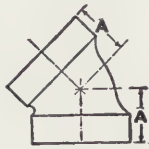
#### ELBOWS

90° ELBOW



J-4500

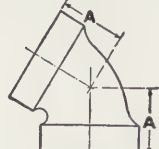
45° ELBOW



J-4502

#### ELBOWS

60°



J-4508

11 1/4°



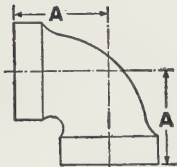
J-4510

Size Inches	DIMENSIONS, A INCHES		PRICE, EACH 90° OR 45°	
	90°	45°	Black	Galv.
1 1/4	1 3/4	1 3/8	.30	.52
1 1/2	2 3/16	1 7/16	.38	.67
2	2 3/8	1 3/4	.57	1.00
2 1/2	2 11/16	2 1/16	1.20	2.10
3	3 3/16	2 3/8	1.45	2.55
4	3 3/8	2 3/4	2.30	4.00
5	4 1/2	3 3/16	4.25	7.40
6	5 3/16	3 1/2	6.25	11.00
7	5 9/16	3 7/8	11.50	20.00
8	6 1/2	4 3/16	15.00	26.25
10	7 3/4	4 7/8	31.00	54.00
12	9	5 1/2	47.50	83.00
14	9 3/4	5 7/8	65.00	114.00

90° ells, size 1 1/2x1 1/4; black, .57; galv., 1.00; 2x1 1/4: black, .85; galv., 1.50.

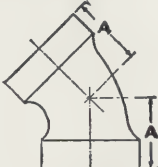
#### LONG TURN ELBOWS

90°



J-4504

45°



J-4506

Size Inches	DIMENSIONS, A INCHES		PRICE, EACH 90° OR 45°	
	90°	45°	Black	Galv.
1 1/4	2 1/4	1 3/4	.35	.60
1 1/2	2 1/2	1 7/8	.42	.72
2	3 1/16	2 1/4	.65	1.15
2 1/2	3 11/16	2 5/8	1.40	2.45
3	4 1/4	2 7/8	1.75	3.10
4	5 3/16	3 7/16	2.75	4.80
5	6 1/8	4 1/8	5.25	9.20
6	7 1/8	4 7/8	7.50	13.15
7	8 1/8	5 1/2	13.50	23.50
8	9	6	19.00	33.25
10	11	7 1/2	38.00	66.50
12	13	8 3/4	57.50	100.00
14	14 1/4	9 1/2	75.00	130.00

90° elbows are tapped, pitched 1/4 inch to the foot.

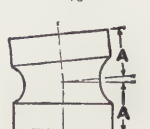
Dimensions subject to a slight variation and change without notice.

22 1/2°



J-4512

5 1/2°

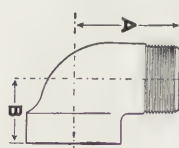


J-4514

Size Inches	DIMENSIONS, A INCHES				PRICE, EACH	
	60°	11 1/4°	22 1/2°	5 1/2°	Blk.	Galv.
1 1/4	1 9/16	1	1 1/8	1	.30	.52
1 1/2	1 3/4	1 7/16	1 1/4	1 5/16	.38	.67
2	2	1 13/16	1 7/8	1 1/2	.57	1.00
2 1/2	2 1/2	1 11/16	1 3/4	...	1.20	2.10
3	2 7/8	1 11/8	2	1 3/4	1.45	2.55
4	3 3/8	2 1/8	2 5/16	2	2.30	4.00
5	3 7/8	2 3/8	2 5/8	2 1/4	4.25	7.40
6	4 3/16	2 1/2	2 15/16	2 5/8	6.25	11.00
7	4 1/2	2 5/8	3 1/4	2 3/8	11.50	20.00
8	5 3/8	2 3/4	3 9/16	2 1/2	15.00	26.25
10	6 1/4	3	3 7/8	2 3/4	31.00	54.00
12	...	...	4 3/16	...	47.50	83.00

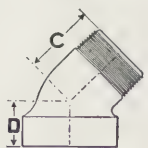
#### STREET ELBOWS

90°



J-4516

45°



J-4518

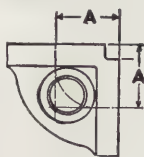
Size Inches	DIMENSIONS, IN.				PRICE, EACH	
	A	B	C	D	Black	Galv.
1 1/4	2 5/8	1 5/8	1 7/8	1 3/16	.35	.60
1 1/2	2 5/16	1 13/16	2	1 1/4	.40	.70
2	3 5/16	2 1/8	2 7/16	1 3/4	.60	1.10

These fittings have an interior shoulder and are made with same inside capacity as the inside diameter of the pipe, thus securing an unobstructed surface, allowing all solid matter to pass without choking the pipes.

## CAST IRON DRAINAGE FITTINGS SCREWED FOR WROUGHT PIPE

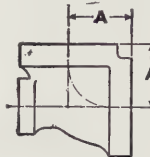
### 90° ELBOWS

#### SIDE OUTLET



J-4520

#### HEEL OUTLET

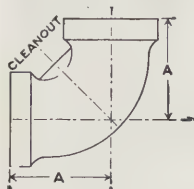


J-4522

Description	Side Outlet	Heel Outlet
Size.....inches	4	4
Dimensions, A....."	3 13/16	3 13/16
Size, Outlets....."	2	2
Price, Black.....each	3.85	3.85
" Galvanized....."	6.75	6.75

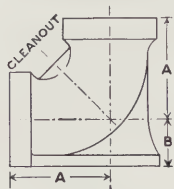
### 90° LONG TURN ELBOWS WITH CLEANOUT

#### WITHOUT BASE



J-4524

#### WITH BASE



J-4526

Description	Without Base	With Base
Size.....inches	4	4
Dimensions, A....."	6 1/4	6 1/4
" B....."	2 7/8	2 7/8
Size, Outlets....."	2	2
Price, Black.....each	5.00	7.00
" Galvanized....."	8.75	12.25

The inlets on reducing fittings are always the smallest openings.

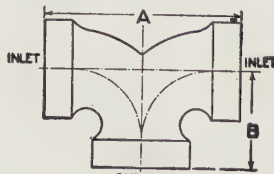
These fittings have an interior shoulder, and are made with same inside capacity as the inside diameter of the pipe, thus securing an unobstructed surface, allowing all solid matter to pass without choking the pipe.

Fittings are chamfered, thus preventing damage to the threads and permitting of an easy entrance of the pipe in making up joints.

All fittings are regularly made of a gray iron, of superior quality and high tensile strength, and thoroughly inspected before leaving factory.

Dimensions subject to a slight variation and change without notice.

### THREE-WAY ELBOWS

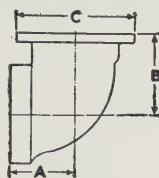


J-4528

Size Inches	DIMENSIONS, INCHES		PRICE, EACH	
	A	B	Black	Galv.
1 1/4	4 1/2	2 1/4	.75	1.25
1 1/2	5 1/4	2 5/8	.85	1.50
2	6 1/4	3 1/8	1.10	1.95
2 1/2	7 3/8	3 11/16	2.25	3.90
3	8 5/8	4 5/16	3.00	5.25
4	10 3/8	5 3/16	5.00	8.75
4x3	9 1/2	4 5/16	5.50	9.65
5	12 1/4	6 1/8	7.50	13.15
5x4	11 3/8	5 5/16	8.25	14.50
6	14 1/4	7 1/8	13.50	23.50
6x4	12 3/8	5 7/16	15.00	26.25
6x5	13 3/8	6 1/4	15.00	26.25

The inlets of three-way elbows are tapped, pitched 1/4 inch to the foot.

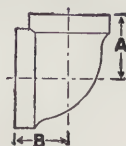
### CLOSET ELBOWS FLANGED ONE END



J-4530

Size Inches.	DIM., IN.		Diam. Flange Inches	PRICE, EACH	
	A	B		Black	Galv.
4	3 3/16	4 5/8	7	4.25	7.40

### REDUCING CLOSET ELBOWS



J-4532

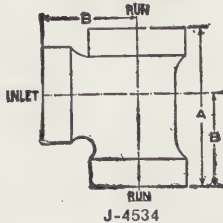
Size Inches	DIMENSIONS, INCHES		PRICE, EACH	
	A	B	Black	Galv.
4x5	4 7/16	3 3/16	4.25	7.40

The inlets of closet elbows are tapped, pitched 1/4 inch to the foot.

## CAST IRON DRAINAGE FITTINGS

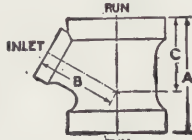
### SCREWED FOR WROUGHT PIPE

90° Y BRANCH  
TEE PATTERN



J-4534

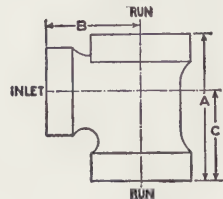
60° Y BRANCH



J-4536

REDUCING 90° Y BRANCHES

TEE PATTERN



J-4538

90° Y BRANCHES  
TEE PATTERN

Size Inches	DIMENSIONS, IN.		PRICE, EACH	
	A	B	Black	Galv.
1	3 1/4	1 5/8	.40	.70
1 1/4	3 3/4	2 1/4	.45	.80
1 1/2	4 1/4	2 1/2	.57	1.00
2	5 3/16	3 1/8	.85	1.50
2 1/2	6 5/16	3 9/16	1.80	3.15
3	7 1/4	4 1/4	2.20	3.85
4	8 3/4	5 3/8	3.50	6.15
5	10 5/16	6 1/8	6.50	11.35
6	11 15/16	7 1/8	9.50	16.50
7	13 5/8	8 1/8	17.50	30.50
8	15 1/16	9	23.00	40.00
10	20	11 3/8	47.00	82.00

60° Y BRANCHES

Size Inches	DIMENSIONS, IN.			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/2 x 1 1/2	4 5/8	2 5/8	2 5/8	.65	1.15
2 x 2	5 1/2	3 1/4	3 1/4	.95	1.65
2 x 1 1/2	4 5/8	3 1/8	2 5/16	1.05	1.85
3 x 2	6 7/16	4 3/8	3 5/16	2.90	5.10
4 x 4	9 3/8	5 3/4	5 3/4	3.85	6.75
4 x 2	6 11/16	4 3/4	4 5/16	4.25	7.40
4 x 3	...	...	...	4.25	7.40
5 x 5	11 1/8	6 3/4	6 3/4	7.10	12.50
5 x 2	...	...	...	7.80	13.65
5 x 3	8 1/2	6	5 9/16	7.80	13.65
5 x 4	...	...	...	7.80	13.65
6 x 6	13	7 7/8	7 7/8	10.50	18.50
6 x 2	...	...	...	11.50	20.00
6 x 4	...	...	...	11.50	20.00
6 x 5	...	...	...	11.50	20.00
8 x 4	...	...	...	27.50	48.00
8 x 6	...	...	...	27.50	48.00

Reducing sizes not listed take same list as reducing sizes having the same run.

All fittings are regularly made of a gray iron, of superior quality and high tensile strength, and thoroughly inspected before leaving factory.

Dimensions subject to a slight variation and change without notice.

Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/4 x 1	...	...	...	.50	.90
1 1/2 x 1	...	...	...	.63	1.10
1 1/2 x 1 1/4	3 7/8	2 1/2	2 3/8	.63	1.10
2 x 1 1/4	...	...	...	.95	1.65
2 x 1 1/2	4 5/8	2 5/16	2 1/16	.95	1.65
2 1/2 x 1 1/4	...	...	...	2.00	3.50
2 1/2 x 1 1/2	4 7/8	3 1/16	2 3/16	2.00	3.50
2 1/2 x 2	5 1/2	3 5/16	3 1/4	2.00	3.50
3 x 1 1/4	...	...	...	2.40	4.20
3 x 1 1/2	5 1/16	3 9/16	2 5/16	2.40	4.20
3 x 2	5 11/16	3 5/8	3 5/16	2.40	4.20
4 x 1 1/4	...	...	...	3.85	6.75
4 x 1 1/2	5 1/4	3 9/16	3	3.85	6.75
4 x 2	5 13/16	4 1/16	3 3/8	3.85	6.75
4 x 2 1/2	6 5/8	4 7/16	3 9/16	3.85	6.75
4 x 3	7 3/8	4 3/4	4 1/2	3.85	6.75
3 x 4	8 5/8	5 3/16	5 1/8	3.85	6.75
5 x 1 1/2	5 9/16	4 3/8	3 3/16	7.15	12.50
5 x 2	6 1/8	4 5/8	3 9/16	7.15	12.50
5 x 2 1/2	...	...	...	7.15	12.50
5 x 3	7 3/4	5 1/4	4 1/2	7.15	12.50
5 x 4	9 1/8	5 11/16	5 3/8	7.15	12.50
6 x 1 1/2	...	...	...	10.50	18.50
6 x 2	6 1/4	5 1/8	3 5/8	10.50	18.50
6 x 3	7 7/8	5 3/4	4 9/16	10.50	18.50
6 x 4	9 1/4	6 3/16	5 7/16	10.50	18.50
6 x 5	10 9/16	6 5/8	6 1/4	10.50	18.50
8 x 2	...	...	...	25.50	44.50
8 x 3	11 7/16	7 1/4	7 15/16	25.50	44.50
8 x 4	11 7/16	7 9/16	7 1/2	25.50	44.50
8 x 5	...	...	...	25.50	44.50
8 x 6	15 1/16	8 1/2	10	25.00	44.50

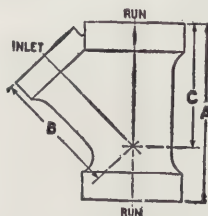
The inlet of 90° Y branches is tapped, pitched 1/4 inch to the foot.

These fittings have an interior shoulder, and are made with same inside capacity as the inside diameter of the pipe, thus securing an unobstructed surface, allowing all solid matter to pass without choking the pipe.

## CAST IRON DRAINAGE FITTINGS

SCREWED FOR WROUGHT PIPE

### REDUCING 45° Y BRANCHES



J-4540

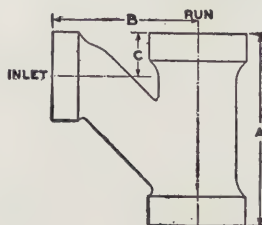
Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1½ x 1¼				.72	1.25
2 x 1¼				1.05	1.85
2 x 1½	5⅞	4⅞	4⅞	1.05	1.85
2½ x 1¼				2.30	4.00
2½ x 1½	6⅞	4⅞	4⅞	2.30	4.00
2½ x 2	7⅞	5⅞	4⅞	2.30	4.00
3 x 1¼				2.90	5.10
3 x 1½	6⅞	5⅞	4⅞	2.90	5.10
3 x 2	7⅞	5⅞	5⅞	2.90	5.10
3 x 2½	8	5⅞	5⅞	2.90	5.10
4 x 1¼				4.25	7.40
4 x 1½	7⅞	6⅞	5¾	4.25	7.40
4 x 2	7⅞	6⅞	6	4.25	7.40
4 x 2½				4.25	7.40
4 x 3	9¼	7⅞	6⅞	4.25	7.40
5 x 2	8¼	7⅞	6⅞	7.80	13.65
5 x 3	9⅞	7⅞	7⅞	7.80	13.65
5 x 4	11⅞	8½	8⅞	7.80	13.65
6 x 2	8⅞	8½	7⅞	11.50	20.00
6 x 2½				11.50	20.00
6 x 3	10	8¾	8⅞	11.50	20.00
6 x 4	11⅞	9⅞	9⅞	11.50	20.00
6 x 5	13	10	9⅞	11.50	20.00
7 x 3	10	9⅞	8⅞	21.00	37.00
7 x 4	11⅞	10¼	9⅞	21.00	37.00
7 x 5	16⅞	10⅞	10½	21.00	37.00
7 x 6	16⅞	11⅞	11⅞	21.00	37.00
8 x 3				27.50	48.00
8 x 4	11⅞	11	10⅞	27.50	48.00
8 x 5				27.50	48.00
8 x 6	14⅞	12⅞	11⅞	27.50	48.00
10 x 4	14	12⅞	11½	57.00	97.00
10 x 5				57.00	97.00
10 x 6	15½	14¼	13½	57.00	97.00
12 x 6	18	15¾	14¼	80.00	140.00
14 x 3				105.00	175.00
14 x 4				105.00	175.00
14 x 5				105.00	175.00
14 x 6	19½	17¾	16⅞	105.00	175.00
14 x 12				105.00	175.00

The inlets on reducing fittings are always the smallest openings.

Dimensions subject to a slight variation and change without notice.

### REDUCING 90° LONG TURN Y BRANCHES

TEE PATTERN



J-4542

Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1¼ x 1	4¼	3½	1	.63	1.10
1½ x 1	4½	3⅞	1	.80	1.40
1½ x 1¼	5⅞	3⅞	1¾	.80	1.40
2 x 1				1.20	2.10
2 x 1¼				1.20	2.10
2 x 1½	5¾	4⅞	1⅞	1.20	2.10
2½ x 1				2.65	4.65
2½ x 1¼				2.65	4.65
2½ x 1½	5¾	4⅞	1⅞	2.65	4.65
2½ x 2	7⅞	5¾	1⅞	2.65	4.65
3 x 1½	5⅞	5	1⅞	3.75	6.55
3 x 2	7⅞	6⅞	1⅞	3.75	6.55
3 x 2½				3.75	6.55
4 x 1½	6⅞	5⅞	1⅞	6.60	11.55
4 x 2	7⅞	6⅞	1⅞	6.60	11.55
4 x 2½	8⅞	7⅞	2	6.60	11.55
4 x 3	10	8⅞	2⅞	6.60	11.55
5 x 1½	6⅞	6	1⅞	10.50	18.50
5 x 2	7¾	7⅞	1⅞	10.50	18.50
5 x 2½				10.50	18.50
5 x 3	10¼	8⅞	2⅞	10.50	18.50
5 x 4	13	10⅞	2⅞	10.50	18.50
6 x 2	7⅞	7¾	1⅞	22.00	38.50
6 x 3	10⅞	9⅞	2⅞	22.00	38.50
6 x 4	13⅞	11	2⅞	22.00	38.50
6 x 5	16⅞	12⅞	3½	22.00	38.50
7 x 3	10⅞	9⅞	2⅞	33.00	58.00
7 x 4	13⅞	11⅞	2⅞	33.00	58.00
7 x 5				33.00	58.00
7 x 6				33.00	58.00
8 x 3	10⅞	10¼	2⅞	44.00	77.00
8 x 4	13⅞	12	2⅞	44.00	77.00
10 x 4	14	13	3	60.00	102.00
12 x 5	17	15½	4	85.00	150.00

The inlet of 90° long turn Y branches is tapped, pitched ¼ inch to the foot.

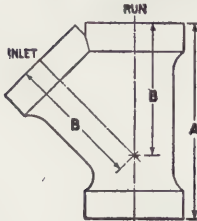
The inlets on reducing fittings are always the smallest openings.



## CAST IRON DRAINAGE FITTINGS

### SCREWED FOR WROUGHT PIPE

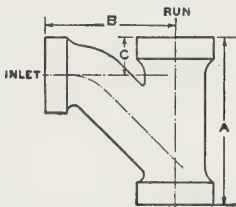
#### 45° Y BRANCHES



J-4544

Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/4	5	3 1/4		.52	.90
1 1/2	5 1/2	3 3/8		.65	1.15
2	6 7/16	4 3/16		.95	1.65
2 1/2	7 7/8	5 3/8		2.10	3.70
3	9	6 3/16		2.65	4.65
4	10 7/8	7 1/16		3.85	6.75
5	12 5/16	9 3/16		7.10	12.50
6	14 3/4	10 3/4		10.50	18.50
7	16 11/16	12 1/4		19.00	33.25
8	18 13/16	13 3/16		25.00	44.00
10	20	16 1/8		52.00	91.00
12	24 1/4	19 5/8		75.00	130.00
14	28	21 1/2		95.00	165.00

#### 90° LONG TURN Y BRANCHES TEE PATTERN



J-4546

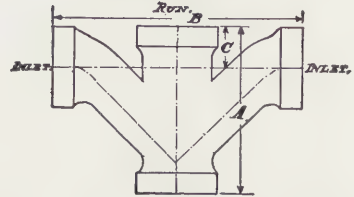
Size Inches	DIMENSIONS, INCHES				PRICE, EACH	
	A	B	C		Black	Galv.
1 1/4	4 3/4	3 5/8	1 3/16		.57	1.00
1 1/2	5 3/8	4 1/8	1 1/4		.70	1.22
2	7 1/16	5 7/16	1 5/8		1.10	1.95
2 1/2	8 1/4	6 1/4	2		2.40	4.20
3	9 3/16	7 1/2	2 5/16		3.35	5.85
4	13 3/4	9 7/8	2 7/8		6.00	10.50
5	15 3/4	12 1/4	3 1/2		9.50	16.50
6	18 11/16	14 9/16	4 1/8		20.00	35.00
7	21 5/8	16 7/8	4 3/4		30.00	52.50
8	24 9/16	19 5/16	5 1/4		40.00	70.00

The inlet of all 90° long turn Y branches is tapped, pitched 1/4 inch to foot.

The inlets on reducing fittings are always the smallest openings.

Dimensions subject to a slight variation and change without notice.

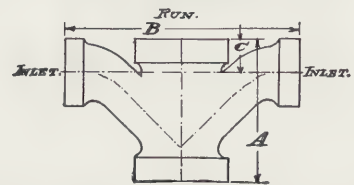
#### DOUBLE 90° LONG TURN Y BRANCHES TEE PATTERN



J-4548

Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/4	4 3/4	7 1/4	1 3/16	1.00	1.75
1 1/2	5 3/8	8 1/4	1 1/4	1.10	1.95
2	7 1/16	10 7/8	1 5/8	1.75	3.10
2 1/2	8 1/4	12 1/2	2	3.60	6.30
3	9 3/16	15	2 5/16	5.00	8.75
4	13 3/4	19 3/4	2 7/8	9.00	15.75
5	15 3/4	24 1/2	3 1/2	14.00	24.50
6	18 11/16	29 1/8	4 1/8	30.00	52.50
7	21 5/8	33 3/4	4 3/4	45.00	79.00
8	24 9/16	38 5/8	5 1/4	60.00	105.00

#### REDUCING DOUBLE 90° LONG TURN Y BRANCHES TEE PATTERN

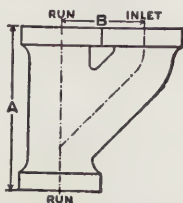


J-4550

Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/4 x 1	4 1/4	7	1	1.10	1.90
1 1/2 x 1	4 1/2	7 1/4	1	1.25	2.25
1 1/2 x 1 1/4	5 1/8	7 3/4	1 3/16	1.25	2.25
2 x 1 1/4	...	...	...	1.90	3.35
2 x 1 1/2	5 3/4	8 3/4	1 5/16	1.90	3.35
2 1/2 x 1 1/4	...	...	...	4.00	7.00
2 1/2 x 1 1/2	5 3/4	9 1/8	1 5/16	4.00	7.00
3 x 1 1/2	5 15/16	10	1 5/16	5.50	9.65
3 x 2	7 9/16	12 1/8	1 5/8	5.50	9.65
4 x 2	7 11/16	13 1/4	1 5/8	10.00	17.50
4 x 3	10	16 1/8	2 3/8	10.00	17.50
5 x 4	13	20 7/8	2 7/8	15.50	27.00
6 x 2	7 15/16	15 1/2	1 5/8	33.00	58.00
6 x 4	13 1/16	22	2 7/8	33.00	58.00
6 x 5	16 1/16	25 5/8	3 1/2	33.00	58.00

## CAST IRON DRAINAGE FITTINGS SCREWED FOR WROUGHT PIPE

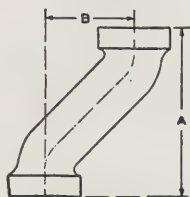
### SPECIAL UPRIGHT Y BRANCHES



J-4552

Size Inches	DIMENSIONS, INCHES		PRICE, EACH	
	A	B	Black	Galv.
2 x 1 1/2	5 7/8	2 15/16	2.90	5.10
2 1/2 x 1 1/2	5 15/16	3 5/16	4.50	7.75
2 1/2 x 2	7 1/8	3 5/8	4.50	7.75
3 x 2	9 11/16	4 5/8	6.00	10.50
3 x 3	9 11/16	4 5/8	5.50	9.75
4 x 2	7 1/8	4 9/16	8.75	15.25
4 x 4	11 3/4	5 13/16	8.00	14.00

### OFFSETS



J-4554

Size Inches	Offset B, In.	Length A, In.	PRICE, EACH	
			Black	Galv.
2	4	7 1/2	2.15	3.75
2	6	9 1/2	2.40	4.20
2	8	11 1/2	2.60	4.55
2	10	13 1/2	2.85	5.00
3	4	8 3/4	3.35	5.85
3	6	10 3/4	4.00	7.00
3	8	12 3/4	4.75	8.30
3	10	14 3/4	5.50	9.35
4	4	9 3/4	5.00	8.75
4	6	11 3/4	5.75	10.00
4	8	13 3/4	6.50	11.35
4	10	15 3/4	7.50	13.15
4	12	17 3/4	8.50	15.00
5	6	12 5/8	9.00	15.75
5	8	14 5/8	10.00	17.50
5	10	16 5/8	11.00	19.25
5	12	18 5/8	12.00	21.00
6	6	13 5/8	12.50	22.00
6	8	15 5/8	13.50	23.50
6	10	17 5/8	14.50	25.50
6	12	19 5/8	15.50	27.00

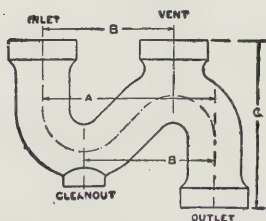
### INCREASERS



J-4553

Size Inches	Dimensions, A Inches	PRICE, EACH	
		Black	Galv.
3x 2	9	2.50	4.40
4x 2	9	3.75	6.55
4x 3	9	3.75	6.55
5x 2	9	5.50	9.65
5x 3	9	5.50	9.65
5x 4	9	5.50	9.65
6x 4	9	6.50	11.35
6x 5	9	6.50	11.35
7x 4	..	12.00	20.00
7x 6	..	12.00	20.00
8x 4	9	15.00	26.25
8x 6	9	15.00	26.25
10x 8	..	20.00	35.00
12x10	..	40.00	70.00
14x 6	..	55.00	95.00
14x 8	..	55.00	95.00

### S TRAPS



J-4558

Size Inches	DIMEN., INCHES			Size Cleanout Inches	PRICE, EACH	
	A	B	C		Black	Galv.
2	8 1/4	6 1/4	8	1	4.00	7.00
3	10 3/4	8 1/4	11 1/4	1 1/4	9.25	16.00
4	14 1/8	10 5/8	13 3/4	2	14.00	24.00
5	16 3/4	12 3/8	16 7/8	2	21.00	37.00
6	20 1/4	15 3/8	19 3/4	2	36.00	63.00

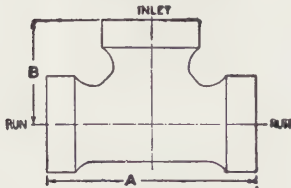
The vent for the 2-inch size is 2 inches; 3-inch size, 3 inches; 4, 5 and 6-inch sizes, 4 inches.

Dimensions subject to a slight variation and change without notice.

## CAST IRON DRAINAGE FITTINGS

### SCREWED FOR WROUGHT PIPE

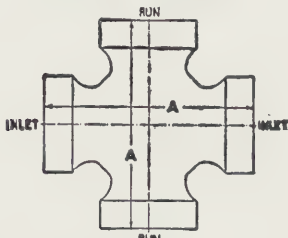
#### BASIN TEES



J-4560

Size Inches	DIMENSIONS, INCHES		PRICE, EACH	
	A	B	Black	Galv.
1 1/4	4 5/8	2 5/16	.60	1.00
1 1/2	5 3/8	2 9/16	.70	1.22
1 1/2 x 1 1/4	5 1/8	2 9/16	.77	1.35
2	7	3 1/2	1.10	1.95
2 x 1 1/4	6 1/4	3 1/8	1.20	2.10
2 x 1 1/2	6 1/2	3 1/4	1.20	2.10
2 1/2	8 1/2	4 1/4	1.75	3.00

#### BASIN CROSSES



J-4562

Size Inches	Dimensions, A Inches	PRICE, EACH	
		Black	Galv.
1 1/4	4 5/8	1.25	2.25
1 1/2	5 3/8	1.50	2.50
2	7	1.75	3.10
2 x 1 1/2	6 1/2	1.95	3.40

Inlets of basin tees and crosses are tapped, pitched 1/4 inch to the foot.

Inlets on reducing fittings are always the smallest opening.

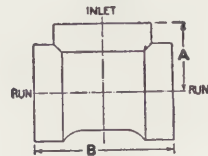
These fittings have an interior shoulder, and are made with same inside capacity as the inside diameter of the pipe, thus securing an unobstructed surface, allowing all solid matter to pass without choking the pipes.

Fittings are chamfered, thus preventing damage to the threads and permitting of an easy entrance of the pipe in making up joints.

When not otherwise specified, fittings will be coated with heated asphaltum.

Dimensions subject to a slight variation and change without notice.

#### TEES



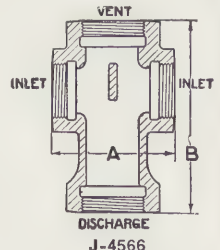
J-4564

Size Inches	DIMENSIONS, INCHES		PRICE, EACH	
	A	B	Black	Galv.
1 1/4	1 3/4	3 1/2	.45	.80
1 1/2	2 3/16	4 3/8	.55	1.00
1 1/2 x 1 1/4	2 5/16	4 5/8	.60	1.10
2	2 5/16	4 5/8	.80	1.40
2 x 1 1/4	...	...	.90	1.60
2 x 1 1/2	2 1/4	4 7/8	.90	1.60
2 1/2	2 13/16	5 5/8	1.50	2.50
2 1/2 x 2	...	...	1.65	2.75
3	3 3/16	6 3/8	2.00	3.50
3 x 1 1/2	...	...	2.20	3.85
3 x 2	3	5 1/2	2.20	3.85
4	4	8	3.25	5.70
4 x 2	3 9/16	6	3.60	6.30
4 x 3	3 3/4	7	3.60	6.30
5	4 5/8	9 1/4	6.00	10.50
5 x 2	4 3/16	6	6.60	11.55
5 x 3	4 3/8	6 7/8	6.60	11.55
5 x 4	...	...	6.60	11.55
6	5 3/16	10 3/8	8.75	15.25
7	5 13/16	11 5/8	16.00	28.00
8	6 1/2	13	21.00	37.00
10	7 3/4	15 1/2	43.00	75.00
12	9	18	60.00	100.00
12 x 8	...	...	65.00	110.00
12 x 10	...	...	65.00	110.00
14 x 8	...	...	85.00	145.00
14 x 10	...	...	85.00	145.00
14 x 12	...	...	85.00	145.00

Inlets of tees are tapped, pitched 1/4 inch to the foot.

#### PARTITION CROSSES

Partition crosses are made to supply a demand in certain localities, but may not be passed by inspectors everywhere.



J-4566

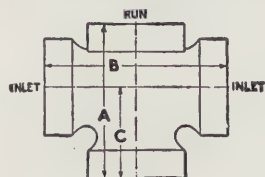
Size Inches	DIMENSIONS, INCHES		PRICE, EACH	
	A	B	Black	Galv.
1 1/4 x 1 1/2	3 1/2	5 1/2	1.25	2.20

# CAST IRON DRAINAGE FITTINGS

SCREWED FOR WROUGHT PIPE

## DOUBLE 90° Y BRANCHES

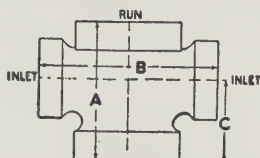
TEE PATTERN



J-4578

Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1	3 1/4	3 7/8	1 5/16	.60	1.05
1 1/4	3 3/4	4 1/2	2 1/4	.70	1.22
1 1/2	4 1/4	5	2 1/2	.85	1.50
2	5 3/16	6 1/8	3 1/16	1.30	2.30
2 1/2	6 5/16	7 3/8	3 1/16	2.85	5.00
3	7 1/4	8 1/2	4 1/4	3.40	5.95
4	8 3/4	10 3/8	5 3/16	5.25	9.20
5	10 5/16	12 1/4	6 1/8	9.50	16.50
6	11 5/16	14 1/4	7 1/8	14.00	24.50
7	13 5/8	16 1/4	8 7/8	25.00	42.50
8	15 1/16	18	9	36.00	62.00
10	20	22 3/4	11 3/8	60.00	102.00

## REDUCING DOUBLE 90° Y BRANCHES—TEE PATTERN



J-4570

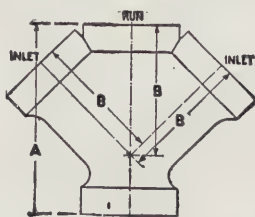
Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/4 x 1	...	...	...	.77	1.35
1 1/2 x 1 1/4	3 7/8	5	2 3/8	.95	1.65
2 x 1 1/4	...	...	...	1.50	2.60
2 x 1 1/2	4 5/8	5 7/8	2 11/16	1.50	2.60
2 1/2 x 1 1/2	...	...	...	3.15	5.50
2 1/2 x 2	5 1/2	6 5/8	3 1/4	3.15	5.50
3 x 1 1/2	5 1/16	6 5/8	2 15/16	3.75	6.55
3 x 2	5 9/16	7 1/4	3 9/16	3.75	6.55
4 x 2	5 9/16	8 1/8	3 3/8	5.75	10.00
5 x 4	9 1/8	11 3/8	5 3/8	10.50	18.50
6 x 2	6 1/4	10 1/4	3 5/8	15.50	27.00
6 x 4	9 1/4	12 3/8	5 7/8	15.50	27.00
6 x 5	10 9/16	13 1/4	6 1/4	15.50	27.00
8 x 6	15 1/16	17	10	40.00	68.00

The inlets of double 90° Y branches are tapped, pitched 1/4 inch to the foot.

The inlets on reducing fittings are always the smallest openings.

Dimensions subject to a slight variation add change without notice.

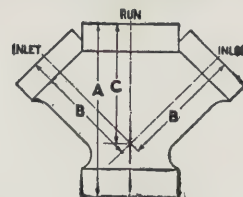
## DOUBLE 45° Y BRANCHES



J-4572

Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/4	5	3 1/4	...	.90	1.60
1 1/2	5 1/2	3 3/8	...	1.00	1.75
2	6 7/16	4 5/16	...	1.45	2.55
2 1/2	7 7/8	5 3/8	...	3.25	5.70
3	9	6 3/16	...	4.00	7.00
4	10 7/8	7 1/16	...	5.75	10.00
5	12 15/16	9 3/16	...	10.75	18.80
6	14 3/4	10 3/4	...	16.00	28.00
7	16 11/16	12 1/4	...	28.50	50.00
8	18 13/16	13 9/16	...	38.00	66.50
10	20	16 1/8	...	78.00	137.00

## REDUCING DOUBLE 45° Y BRANCHES



J-4574

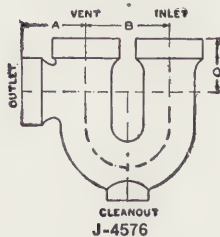
Size Inches	DIMENSIONS, INCHES			PRICE, EACH	
	A	B	C	Black	Galv.
1 1/2 x 1 1/4	...	...	...	1.10	1.90
2 x 1 1/2	5 7/8	4 1/8	4 1/16	1.60	2.80
2 1/2 x 1 1/4	...	...	...	3.60	6.30
2 1/2 x 1 1/2	6 7/16	4 5/8	4 9/16	3.60	6.30
3 x 1 1/2	6 5/8	5 1/16	4 15/16	4.40	7.70
3 x 2	7 3/8	5 3/8	5 5/16	4.40	7.70
4 x 2	7 11/16	6 5/16	6	6.35	11.00
4 x 3	9 1/4	7 3/16	6 7/8	6.35	11.00
5 x 2	8 1/4	7 3/16	6 7/8	11.75	20.50
5 x 3	9 5/16	7 7/8	7 5/8	11.75	20.50
5 x 4	11 3/8	8 1/2	8 7/16	11.75	20.50
6 x 2	8 7/16	8 1/16	7 9/16	17.50	30.50
6 x 3	...	...	...	17.50	30.50
6 x 4	11 7/8	9 3/8	9 1/16	17.50	30.50
7 x 6	...	...	...	31.50	54.00
8 x 4	11 7/16	11	10 7/16	42.00	72.00
8 x 6	14 15/16	12 3/8	11 7/8	42.00	72.00



## CAST IRON DRAINAGE FITTINGS

SCREWED FOR WROUGHT PIPE

## HALF S TRAPS



Size Inches	PRICE, EACH	
	Black	Galvanized
1 1/4	1.55	2.70
1 1/2	1.70	3.00
2	2.20	3.85
3	5.00	8.75
4	10.00	17.50
5	21.50	37.50
6	32.50	57.00
7	40.00	70.00
8	55.00	95.00

Size	DIMENSIONS, INCHES				
	A	B	C	Vent	Cleanout
1 1/4	2 5/16	3 1/8	2	1 1/4	3/4
1 1/2	2 1/2	3 3/8	2 1/4	1 1/2	1
2	3 1/16	4	2 9/16	2	1
3	4 3/16	5 3/8	3 1/2	3	1 1/4
4	5 1/8	7	4 3/16	4	2
5	6 1/16	8 3/8	4 3/4	4	2
6	6 9/16	10 1/8	5 7/16	4	2
7	7 3/4	11 1/4	6 1/8	5	2
8	8 5/16	12 3/8	6 3/4	6	3

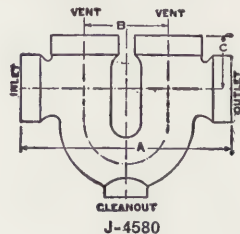
The outlet of half S trap is tapped, pitched 1/4 inch to the foot.

## COUPLINGS



Size Inches	Dimen. A Inches	PRICE, EACH	
		Black	Galvanized
1	2	.65	1.15
1 1/4	3	.70	1.25
1 1/2	3	.80	1.40
2	3 3/4	.90	1.60
2 1/2	4	1.20	2.10
3	4 1/4	1.50	2.60
4	4 1/2	2.50	3.40
5	4 3/4	4.00	7.00
6	5	6.00	10.50
7	5 1/2	8.00	14.00
8	5	10.00	17.50
10	6 1/4	14.00	24.50

## RUNNING TRAPS



Size Inches	PRICE, EACH	
	Black	Galvanized
1 1/4	2.40	4.20
1 1/2	2.70	4.70
2	3.30	5.75
3	5.50	9.50
4	9.75	17.00
5	24.50	43.00
6	33.50	58.50
7	50.00	87.50
8	65.00	115.00
10	115.00	200.00
12	180.00	300.00
14	300.00	500.00

Size	DIMENSIONS, INCHES				
	A	B	C	Vent	Cleanout
1 1/4	7 3/4	3 1/8	2	1 1/4	3/4
1 1/2	8 3/8	3 3/8	2 1/4	1 1/2	1
2	10 1/8	4	2 9/16	2	1
3	13 3/4	5 3/8	3 1/2	3	1 1/4
4	17 1/4	7	4 3/16	4	2
5	20 1/2	8 3/8	4 3/4	4	2
6	23 1/4	10 1/8	5 7/16	4	2
7	26 3/4	11 1/4	6 1/8	5	2
8	30 1/4	12 3/8	6 3/4	6	3
10	36 1/4	14 3/4	8 1/4	6	3
12	41 7/8	17	9 1/2	6	3
14	45	18 1/2	10 1/2	8	4

The inlet and outlet of running traps are tapped, pitched 1/4 inch to the foot.

These fittings have an interior shoulder, and are made with same inside capacity as the inside diameter of the pipe, thus securing an unobstructed surface, allowing all solid matter to pass without choking the pipes.

All fittings are regularly made of a gray iron, of superior quality and high tensile strength, and thoroughly inspected before leaving factory.

When not otherwise specified, fittings will be coated with heated asphaltum.

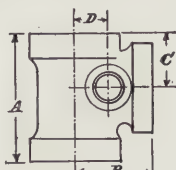
Dimensions subject to a slight variation and change without notice

## CAST IRON DRAINAGE FITTINGS

SCREWED FOR WROUGHT PIPE

### CLOSET TEES

90° Y BRANCHES WITH VENT ON BRANCH



J-4582

Size Tee In.	Size Inlet In.	DIMENSIONS, INCHES			
		A	B	C	D
4	2	8 3/4	5 3/16	3 9/16	2 5/16

WITH RIGHT SIDE INLET

Price, Black	each	5.75
" Galvanized	"	10.00

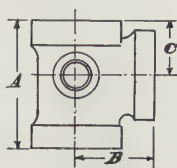
WITH LEFT SIDE INLET

Price, Black	each	5.75
" Galvanized	"	10.00

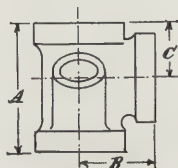
90° Y BRANCHES WITH AUXILIARY INLET ON BODY

Straight Inlet

45° Inlet



J-4584



J-4586

Size Tee In.	Size Inlet In.	DIMENSIONS, INCHES		
		A	B	C
4	2	8 3/4	5 3/16	3 9/16

WITH STRAIGHT AUXILIARY INLET

			Black	Galv.
Price, Right Side Inlet	....		5.75	10.00
" Left	"	"	5.75	10.00

WITH 45° AUXILIARY INLET

			Black	Galv.
Price, Right Side Inlet	....		6.35	11.00
" Left	"	"	6.35	11.00

### CLOSET TEES

SHORT TURN V BRANCHES FOR BATTERY OF CLOSETS

PATENTED

Right Hand

Left Hand



J-4588



J-4590

4x4-INCH BRANCHES

	DIMENSIONS, INCHES					
	A	B	C	D	E	F
						Center to Face of Vent
Tapping No.						
1	2 5/8	5 1/4	3 1/2	5 1/4	0	3
2	2 1/4	5 1/4	3 1/2	5 1/4	0	3
3	1 7/8	5 1/4	3 1/2	5 1/4	0	3
4	1 1/2	5 1/4	3 1/2	5 1/4	0	3
5	1 1/8	5 1/4	3 1/2	5 1/4	0	3
6	3/4	5 1/4	3 1/2	5 1/4	0	3

RIGHT OR LEFT HAND

Price, Black	each	17.00
" Galvanized	"	22.00

5x4-INCH BRANCHES

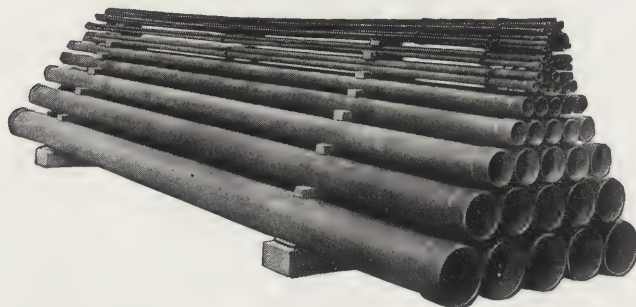
	DIMENSIONS, INCHES					
	A	B	C	D	E	F
						Center to Face of Vent
Tapping No.						
1	4 7/8	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
2	4 1/2	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
3	4 1/8	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
4	3 3/4	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
5	3 3/8	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
6	3	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
7	2 5/8	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
8	2 1/4	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
9	1 7/8	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
10	1 1/2	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
11	1 1/8	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4
12	3/4	5 3/8	3 3/4	5 3/4	1 1/4	6 1/4

RIGHT OR LEFT HAND

Price, Black	each	20.00
" Galvanized	"	26.50

## STANDARD STEAM, GAS AND WATER PIPE

### BLACK AND GALVANIZED



J-4600

AS ADOPTED JANUARY 1, 1913

ALL WEIGHTS AND DIMENSIONS ARE NOMINAL

Size Inches	Price per Foot	DIAMETER, INCHES		Thickness Inches	WT., PER FT., POUNDS		No. of Threads per Inch
		External	Internal		Plain Ends	Threaded and Coupled	
1/8	.05 1/2	.405	.269	.068	.244	.245	27
1/4	.06	.540	.364	.088	.424	.425	18
3/8	.06	.675	.493	.091	.567	.568	18
1/2	.08 1/2	.840	.622	.109	.850	.852	14
3/4	.11 1/2	1.050	.824	.113	1.130	1.134	14
1	.17	1.315	1.049	.133	1.678	1.684	11 1/2
1 1/4	.23	1.660	1.380	.140	2.272	2.281	11 1/2
1 1/2	.27 1/2	1.900	1.610	.145	2.717	2.731	11 1/2
2	.37	2.375	2.067	.154	3.652	3.678	11 1/2
2 1/2	.58 1/2	2.875	2.469	.203	5.793	5.819	8
3	.76 1/2	3.500	3.068	.216	7.575	7.616	8
3 1/2	.92	4.	3.548	.226	9.109	9.202	8
4	1.09	4.500	4.026	.237	10.790	10.889	8
4 1/2	1.27	5.	4.506	.247	12.538	12.642	8
5	1.48	5.563	5.047	.258	14.617	14.810	8
6	1.92	6.625	6.065	.280	18.974	19.185	8
7	2.38	7.625	7.023	.301	23.544	23.769	8
8	2.50	8.625	8.071	.277	24.696	25.	8
8	2.88	8.625	7.981	.322	28.554	28.809	8
9	3.45	9.625	8.941	.342	33.907	34.188	8
10	3.20	10.750	10.192	.279	31.201	32.	8
10	3.50	10.750	10.136	.307	34.240	35.	8
10	4.12	10.750	10.020	.365	40.483	41.132	8
11	4.63	11.750	11.	.375	45.557	46.247	8
12	4.50	12.750	12.090	.330	43.773	45.	8
12	5.07	12.750	12.	.375	49.562	50.706	8
13	5.60	14.	13.250	.375	54.568	55.824	8
14	6.10	15.	14.250	.375	58.573	60.375	8
15	6.50	16.	15.250	.375	62.579	64.500	8

The permissible variation in weight is 5 per cent above and 5 per cent below.

Furnished with threads and coupling and in random lengths, unless otherwise ordered.

For cut lengths, an extra charge will be made above random lengths.

For pipe smoothed on the inside, known as reamed and drifted, an extra charge will be made above standard pipe.

For galvanized or coated pipe, an extra charge will be made above black.

## STEAM, GAS AND WATER PIPE BLACK AND GALVANIZED

ADOPTED JANUARY 1, 1919  
ALL WEIGHTS AND DIMENSIONS ARE NOMINAL  
**EXTRA STRONG**

Size Inches	DIAMETER INCHES		Thickness Inches	Weight per Foot Plain Ends	Price per Foot
	External	Internal		Pounds	
1/8	.405	.215	.095	.314	.12
1/4	.540	.302	.119	.535	.07 1/2
3/8	.675	.423	.126	.738	.07 1/2
1/2	.840	.546	.147	1.087	.11
3/4	1.050	.742	.154	1.473	.15
1	1.315	.957	.179	2.171	.22
1 1/4	1.660	1.278	.191	2.996	.30
1 1/2	1.900	1.500	.200	3.631	.36 1/2
2	2.375	1.939	.218	5.022	.50 1/2
2 1/2	2.875	2.323	.276	7.661	.77
3	3.500	2.900	.300	10.252	1.03
3 1/2	4.	3.364	.318	12.505	1.25
4	4.500	3.826	.337	14.983	1.50
4 1/2	5.	4.290	.355	17.611	1.80
5	5.563	4.813	.375	20.778	2.08
6	6.625	5.761	.432	28.573	2.86
7	7.625	6.625	.500	38.048	3.81
8	8.625	7.625	.500	43.388	4.34
9	9.625	8.625	.500	48.728	4.90
10	10.750	9.750	.500	54.735	5.48
11	11.750	10.750	.500	60.075	6.10
12	12.750	11.750	.500	65.415	6.55

The permissible variation in weight is 5 per cent above and 5 per cent below.

### DOUBLE EXTRA STRONG

Size Inches	DIAMETER, INCHES		Thickness Inches	Weight per Foot Plain Ends	Price per Foot
	External	Internal		Pounds	
1/2	.840	.252	.294	1.714	.32
3/4	1.050	.434	.308	2.440	.35
1	1.315	.599	.358	3.659	.37
1 1/4	1.660	.896	.382	5.214	.52 1/2
1 1/2	1.900	1.100	.400	6.408	.65
2	2.375	1.503	.436	9.029	.91
2 1/2	2.875	1.771	.552	13.695	1.37
3	3.500	2.300	.600	18.583	1.86
3 1/2	4.	2.728	.636	22.850	2.30
4	4.500	3.152	.674	27.541	2.76
4 1/2	5.	3.580	.710	32.530	3.26
5	5.563	4.063	.750	38.552	3.86
6	6.625	4.897	.864	53.160	5.32
7	7.625	5.875	.875	63.079	6.35
8	8.625	6.875	.875	72.424	7.25

The permissible variation in weight is 10 per cent above and 10 per cent below.

The following notes apply to both tables:

Furnished with plain ends and in random lengths, unless otherwise ordered.

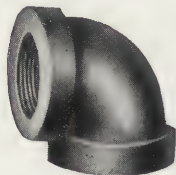
Random length of extra strong and double extra strong pipe is considered to be 12 feet to 22 feet, we to have the privilege, however, of supplying not exceeding 5 per cent of total order in lengths from 6 to 12 feet.

For pipe fitted with threads and couplings; for cut lengths, or galvanized or coated pipe, an extra charge will be made.



## STANDARD CAST IRON FITTINGS

### STRAIGHT ELBOWS



J-4610

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
$\frac{1}{4}$	.05	.10	$3\frac{1}{2}$	1.05	2.10
$\frac{3}{8}$	.05	.10	4	1.20	2.40
$\frac{1}{2}$	.06	.12	$4\frac{1}{2}$	1.75	3.50
$\frac{3}{4}$	.08	.16	5	2.00	4.00
1	.10 $\frac{1}{2}$	.21	6	2.75	5.50
$1\frac{1}{4}$	.16	.32	7	4.70	9.40
$1\frac{1}{2}$	.20	.40	8	6.75	13.50
2	.28	.56	9	9.00	18.00
$2\frac{1}{2}$	.50	1.00	10	13.50	27.00
3	.75	1.50	12	20.00	40.00

### 45° ELBOWS



J-4614

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
$\frac{1}{4}$	.06	.12	$3\frac{1}{2}$	1.25	2.50
$\frac{3}{8}$	.06	.12	4	1.45	2.90
$\frac{1}{2}$	.07	.14	$4\frac{1}{2}$	2.20	4.40
$\frac{3}{4}$	.10	.20	5	2.50	5.00
1	.12	.24	6	3.45	6.90
$1\frac{1}{4}$	.19	.38	7	5.90	11.80
$1\frac{1}{2}$	.24	.48	8	8.50	17.00
2	.34	.68	9	11.25	22.50
$2\frac{1}{4}$	.60	1.20	10	17.00	34.00
3	.90	1.80	12	25.00	50.00

### PITCHED ELBOWS

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
$\frac{1}{2}$	.08	$1\frac{1}{2}$	.25	$3\frac{1}{2}$	1.30
$\frac{3}{4}$	.10	2	.35	4	1.50
1	.13	$2\frac{1}{2}$	.65	...	...
$1\frac{1}{4}$	.20	3	1.00	...	...

### REDUCING ELBOWS



J-4616

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
$\frac{3}{8}$	.06	.12	4	1.40	2.80
$\frac{1}{2}$	.07	.14	$4\frac{1}{2}$	2.00	4.00
$\frac{3}{4}$	.09	.18	5	2.30	4.60
1	.12	.24	6	3.15	6.30
$1\frac{1}{4}$	.18	.36	7	5.40	10.80
$1\frac{1}{2}$	.23	.46	8	7.75	15.50
2	.32	.64	9	10.50	21.00
$2\frac{1}{2}$	.60	1.20	10	15.50	31.00
3	.85	1.70	12	23.00	46.00
$3\frac{1}{2}$	1.20	2.40	..	.....	.....

### RIGHT AND LEFT ELBOWS

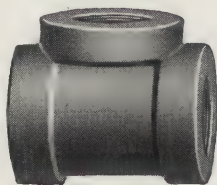


J-4612

Size Inches	Price Black Each	Size Inches	Price Black Each	Size Inches	Price Black Each
$\frac{1}{4}$	.06	1	.12	$2\frac{1}{2}$	.60
$\frac{3}{8}$	.06	$1\frac{1}{4}$	.18	3	.85
$\frac{1}{2}$	.07	$1\frac{1}{2}$	.23	...	...
$\frac{3}{4}$	.09	2	.32	...	...

## STANDARD CAST IRON FITTINGS

### STRAIGHT TEES



J-4618

Size In.	PRICE, EACH		Size In.	PRICE, EACH	
	Black	Galv.		Black	Galv.
1/4	.08	.16	3 1/2	1.50	3.00
3/8	.08	.16	4	1.75	3.50
1/2	.09	.18	4 1/2	2.55	5.10
3/4	.12	.24	5	3.00	6.00
1	.15	.30	6	4.00	8.00
1 1/4	.23	.46	7	6.80	13.60
1 1/2	.29	.58	8	9.75	19.50
2	.41	.82	9	13.00	26.00
2 1/2	.73	1.46	10	19.50	39.00
3	1.10	2.20	12	29.00	58.00

### REDUCING TEES



J-4620

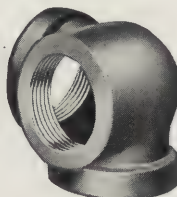


J-4622

Size In.	PRICE, EACH		Size In.	PRICE, EACH	
	Black	Galv.		Black	Galv.
3/8	.09	.18	4	2.00	4.00
1/2	.10	.20	4 1/2	2.95	5.90
3/4	.14	.28	5	3.50	7.00
1	.17	.34	6	4.60	9.20
1 1/4	.27	.54	7	7.80	15.60
1 1/2	.33	.66	8	11.25	22.50
2	.47	.94	9	15.00	30.00
2 1/2	.83	1.66	10	22.50	45.00
3	1.25	2.50	12	33.50	67.00
3 1/2	1.75	3.50	.....	.....	.....

In describing reducing tees, name the size of run first and then the outlet or side.

### SIDE OUTLET ELBOWS



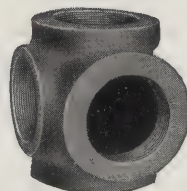
J-4624

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1/2	.18	2	.84	4 1/2	5.25
3/4	.24	2 1/2	1.50	5	6.00
1	.30	3	2.25	6	8.25
1 1/4	.48	3 1/2	3.15	...	....
1 1/2	.60	4	3.60	...	....

### REDUCING

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1/2	.21	2	.96	4 1/2	6.00
3/4	.28	2 1/2	1.70	5	6.90
1	.35	3	2.58	6	9.45
1 1/4	.55	3 1/2	3.60	...	....
1 1/2	.68	4	4.00	...	....

### SIDE OUTLET TEES



J-4626

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1/2	.27	2	1.25	4 1/2	7.65
3/4	.36	2 1/2	2.25	5	9.00
1	.45	3	3.25	6	12.00
1 1/4	.70	3 1/2	4.50	...	....
1 1/2	.90	4	5.25	...	....

### REDUCING

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1/2	.31	2	1.45	4 1/2	8.80
3/4	.42	2 1/2	2.58	5	10.35
1	.52	3	3.73	6	13.80
1 1/4	.80	3 1/2	5.15	...	....
1 1/2	1.00	4	6.00	...	....

## STANDARD CAST IRON FITTINGS

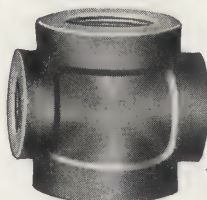
### CROSSES

Straight



J-4628

Reducing



J-4630

#### STRAIGHT SIZES

Size Inches	PRICE, EACH	
	Black	Galv.
$\frac{3}{8}$	.15	.30
$\frac{1}{2}$	.16	.32
$\frac{3}{4}$	.22	.44
1	.27	.54
$1\frac{1}{4}$	.42	.84
$1\frac{1}{2}$	.53	1.06
2	.75	1.50

Size Inches	PRICE, EACH	
	Black	Galv.
$2\frac{1}{2}$	1.30	2.60
3	2.00	4.00
$3\frac{1}{2}$	2.70	5.40
4	3.15	6.30
$4\frac{1}{2}$	4.60	9.20
5	5.50	11.00
6	7.25	14.50

Size Inches	PRICE, EACH	
	Black	Galv.
7	12.25	24.50
8	17.50	35.00
9	23.50	47.00
10	35.00	70.00
12	52.50	105.00
..	.....	.....
..	.....	.....

#### REDUCING

Size Inches	PRICE, EACH	
	Black	Galv.
$\frac{1}{2}$	.18	.36
$\frac{3}{4}$	.25	.50
1	.30	.60
$1\frac{1}{4}$	.46	.92
$1\frac{1}{2}$	.60	1.20
2	.83	1.66

Size Inches	PRICE, EACH	
	Black	Galv.
$2\frac{1}{2}$	1.45	2.90
3	2.20	4.40
$3\frac{1}{2}$	3.00	6.00
4	3.50	7.00
$4\frac{1}{2}$	5.10	10.20
5	6.00	12.00

Size Inches	PRICE, EACH	
	Black	Galv.
6	8.00	16.00
7	13.50	27.00
8	19.25	38.50
9	26.00	52.00
10	38.50	77.00
12	58.00	116.00

#### Y BRANCHES STRAIGHT SIZES



J-4632

Size Inches	PRICE, EACH	
	Black	Galv.
$\frac{1}{2}$	.20	.40
$\frac{3}{4}$	.28	.56
1	.34	.68
$1\frac{1}{4}$	.54	1.08
$1\frac{1}{2}$	.66	1.32
2	.94	1.88

Size Inches	PRICE, EACH	
	Black	Galv.
$2\frac{1}{2}$	1.66	3.32
3	2.50	5.00
$3\frac{1}{2}$	3.50	7.00
4	4.00	8.00
$4\frac{1}{2}$	5.90	11.80
5	7.00	14.00

Size Inches	PRICE, EACH	
	Black	Galv.
6	9.20	18.40
7	15.60	31.20
8	22.50	45.00
10	45.00	90.00
12	67.00	134.00
..	.....	.....

#### REDUCING

Size Inches	PRICE, EACH	
	Black	Galv.
$\frac{1}{2}$	.23	.46
$\frac{3}{4}$	.33	.66
1	.40	.80
$1\frac{1}{4}$	.62	1.24
$1\frac{1}{2}$	.76	1.52
2	1.08	2.16

Size Inches	PRICE, EACH	
	Black	Galv.
$2\frac{1}{2}$	1.90	3.80
3	2.90	5.80
$3\frac{1}{2}$	4.00	8.00
4	4.60	9.20
$4\frac{1}{2}$	6.80	13.60
5	8.00	16.00

Size Inches	PRICE, EACH	
	Black	Galv.
6	10.60	21.20
7	18.00	36.00
8	26.00	52.00
10	51.75	103.50
12	77.00	154.00
..	.....	.....

# STANDARD CAST IRON FITTINGS

## RETURN BENDS CLOSE PATTERN



J-4634

Size In.	Center to Center Inches	PRICE, EACH			
		Right Hand Black	Right Hand Galv.	Right and Left	Left Hand Pitched
$\frac{3}{8}$	$1\frac{1}{8}$	.17	....	....	....
$\frac{1}{2}$	$1\frac{1}{4}$	.18	.36	....	....
$\frac{3}{4}$	$1\frac{1}{2}$	.20	.40	.23	.23
1	$1\frac{3}{4}$	.22	.44	.26	.26
$1\frac{1}{4}$	$2\frac{1}{4}$	.28	.56	.33	.33
$1\frac{1}{2}$	$2\frac{1}{2}$	.40	.80	....	....
2	$3\frac{1}{4}$	.57	1.14	....	....
$2\frac{1}{2}$	$3\frac{5}{8}$	1.20	2.40	....	....
3	$4\frac{3}{8}$	1.70	3.40	....	....
4	6	5.00	10.00	....	....

Right and left and left-hand pitched return bends are made to order.

## OPEN PATTERN



J-4636

Size In.	Center to Center Inches	PRICE, EACH			
		Right Hand Black	Right Hand Galv.	Right and Left	Left Hand Pitched
$\frac{1}{2}$	$1\frac{3}{4}$	.25	.50	.30	.30
$\frac{3}{4}$	$2\frac{1}{4}$	.26	.52	.30	.30
1	$2\frac{1}{2}$	.30	.60	.35	.35
$1\frac{1}{4}$	3	.40	.80	.46	.46
$1\frac{1}{2}$	$3\frac{1}{2}$	.55	1.10	.64	.64
2	$4\frac{1}{2}$	.80	1.60	.92	.92
$2\frac{1}{2}$	$5\frac{3}{8}$	1.35	2.70	1.55	1.55
3	$6\frac{1}{2}$	2.20	4.40	2.50	2.50
4	7	6.50	11.50	7.00	7.00

## RETURN ELBOWS WIDE PATTERN



J-4638

Size Inches	Center to Center Inches	PRICE, EACH	
		Black	Galv.
1	$2\frac{3}{8}$	.30	.60
1	3	.45	.80
1	4	.50	.90
1	5	.60	1.10
1	6	.75	1.30
1	8	1.00	1.60
1	9	1.25	1.85
$1\frac{1}{4}$	$2\frac{1}{8}$	.30	.55
* $1\frac{1}{4}$	$2\frac{1}{2}$	.60	1.10
$1\frac{1}{4}$	4	1.00	1.75
$1\frac{1}{4}$	6	1.25	2.00
$1\frac{1}{4}$	7	1.40	2.25
* $1\frac{1}{4}$	$7\frac{1}{2}$	2.25	3.75
* $1\frac{1}{4}$	8	2.50	4.00
$1\frac{1}{4}$	9	2.00	3.25
$1\frac{1}{2}$	6	1.60	2.60
$1\frac{1}{2}$	8	2.00	3.25
* $2\frac{1}{2}$	$3\frac{7}{8}$	2.00	3.25
2	4	.80	1.60
2	$4\frac{3}{4}$	1.75	3.00
2	5	1.90	3.15
2	6	2.00	3.25
2	8	3.50	5.00
2	12	4.50	7.00
$2\frac{1}{2}$	8	5.50	9.00
3	10	6.00	10.00
$3\frac{1}{2}$	5	5.50	9.00
4	6	6.25	9.75
4	7	6.50	10.00
4	11	7.50	11.00

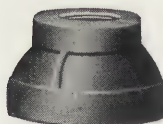
\*These sizes are extra heavy.

Return bends not listed will be furnished at special net prices. On special order we can furnish return bends back or side outlet, prices upon application.



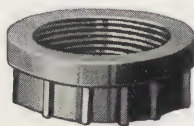
## STANDARD CAST IRON FITTINGS

Reducers



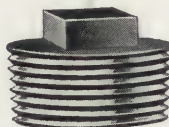
J-4640

Caps

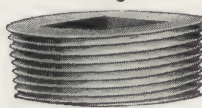


J-4642

Plugs



J-4648

Countersunk  
Plugs

J-4650

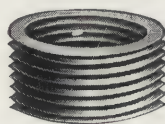
Size In.	PRICE, EACH			
	REDUCERS		CAPS	
	Black	Galv.	Black	Galv.
3/4	.10	.....	.05	.....
1	.16	.....	.08	.....
1 1/4	.22	.....	.14	.....
1 1/2	.28	.....	.20	.....
2	.43	.....	.26	.....
2 1/2	.60	.....	.40	.....
3	.80	.....	.54	.....
3 1/2	1.00	.....	.75	.....
4	1.35	.....	.87	1.74
4 1/2	1.85	3.70	1.05	2.10
5	2.00	4.00	1.20	2.40
6	2.70	5.40	1.55	3.10
7	5.35	10.70	2.50	5.00
8	6.75	13.50	2.85	5.70
9	8.35	16.70	4.75	9.50
10	10.00	20.00	5.50	11.00
12	15.00	30.00	7.00	14.00

Bushings



J-4644

Faced Bushings



J-4646

Size In.	PRICE EACH BUSHINGS		Size In.	PRICE, EACH FACED BUSHINGS	
	Black	Galv.		Black	Galv.
3/8	.04	.08	3/8	.08	.12
1/2	.04	.08	1/2	.09	.14
3/4	.05	.10	3/4	.11	.17
1	.06	.12	1	.13	.20
1 1/4	.07	.14	1 1/4	.17	.25
1 1/2	.09	.18	1 1/2	.22	.23
2	.14	.28	2	.32	.48
2 1/2	.21	.42	2 1/2	.48	.72
3	.30	.60	3	.70	1.05
3 1/2	.40	.80	3 1/2	1.20	1.80
4	.50	1.00	4	1.50	2.25
4 1/2	.75	1.50	4 1/2	2.10	3.15
5	.93	1.85	5	2.60	3.90
6	1.25	2.50	6	3.75	5.60
7	1.87	3.75	7	8.00	....
8	2.75	5.50	8	9.00	....
9	3.25	6.50	10	14.00	....
10	3.75	7.50	12	20.00	....
12	5.00	10.00	....	....	....

Size In.	PRICE, EACH			
	PLUGS		COUNTERSUNK PLUGS	
	Black	Galv.	Solid Black	Countersunk Black
1/8	.02	.....	.....	.....
1/4	.02	.04	.04	.....
3/8	.02	.04	.04	.....
1/2	.02	.04	.04	.04
3/4	.03	.06	.06	.06
1	.04	.08	.08	.08
1 1/4	.05	.10	.09	.09
1 1/2	.07	.14	.11	.11
2	.10	.20	.15	.15
2 1/2	.18	.36	.27	.30
3	.25	.50	.38	.40
3 1/2	.38	.76	.57	.92
4	.42	.84	.63	1.10
4 1/2	.65	1.30	1.00	.....
5	.88	1.75	1.35	2.00
6	1.20	2.40	1.80	3.50
7	1.85	3.70	2.80	.....
8	2.75	5.50	4.15	.....
9	3.25	6.50	5.00	.....
10	3.75	7.50	5.75	.....
12	5.00	10.00	7.50	.....

### LOCKNUTS



J-4651

Size In.	PRICE, EACH	
	Black	Galv.
2	.25	.....
2 1/2	.27	.54
3	.34	.68
3 1/2	.47	.94
4	.64	1.28
4 1/2	.85	1.70
5	.90	1.80
6	1.30	2.60
7	1.70	3.40
8	2.35	4.70
9	2.70	5.40
10	3.00	6.00
12	4.00	8.00

Fittings are of good weight, are suitable for steam working pressures up to 125 pounds, and water working pressures of 175 pounds.

## 90°



## REDUCING



$\frac{1}{4} \times$	$\frac{1}{4}$	2	$x \frac{2}{2}$	4	$x \frac{2}{2}$
$\frac{3}{8} \times$	$\frac{3}{8}$	2	$x \frac{1}{2}$	4	$x \frac{2}{2}$
$\frac{3}{8} \times$	$\frac{1}{4}$	2	$x \frac{1}{4}$	$4\frac{1}{2} \times$	$4\frac{1}{2}$
$\frac{1}{2} \times$	$\frac{1}{2}$	2	$x 1$	$4\frac{1}{2} \times$	4
$\frac{1}{2} \times$	$\frac{3}{8}$	2	$x \frac{3}{4}$	5	$x \frac{5}{5}$
$\frac{1}{2} \times$	$\frac{1}{4}$	$2\frac{1}{2} \times$	$2\frac{1}{2}$	5	$x \frac{4}{2}$
$\frac{3}{4} \times$	$\frac{3}{4}$	$2\frac{1}{2} \times$	2	5	$x \frac{4}{4}$
$\frac{3}{4} \times$	$\frac{1}{2}$	$2\frac{1}{2} \times$	$\frac{1}{2}$	5	$x \frac{3}{3}$
$\frac{3}{4} \times$	$\frac{3}{8}$	$2\frac{1}{2} \times$	$\frac{1}{4}$	5	$x \frac{2}{2}$
1	$x 1$	$2\frac{1}{2} \times$	1	6	$x \frac{6}{6}$
1	$x \frac{3}{4}$	3	$x \frac{3}{3}$	6	$x \frac{5}{5}$
1	$x \frac{1}{2}$	3	$x \frac{2}{2}$	6	$x \frac{4}{4}$
1	$x \frac{3}{8}$	3	$x \frac{2}{2}$	7	$x \frac{7}{7}$
$1\frac{1}{4} \times$	$1\frac{1}{4}$	3	$x \frac{1}{2}$	7	$x \frac{6}{6}$
$1\frac{1}{4} \times$	1	3	$x \frac{1}{4}$	8	$x \frac{8}{8}$
$1\frac{1}{4} \times$	$\frac{1}{4}$	$3\frac{1}{2} \times$	$3\frac{1}{2}$	8	$x \frac{7}{7}$
$1\frac{1}{4} \times$	$\frac{1}{2}$	$3\frac{1}{2} \times$	3	8	$x \frac{6}{6}$
$1\frac{1}{4} \times$	$\frac{3}{8}$	$3\frac{1}{2} \times$	$2\frac{1}{2}$	9	$x \frac{9}{9}$
$1\frac{1}{2} \times$	$\frac{1}{2}$	$3\frac{1}{2} \times$	2	10	$x \frac{10}{10}$
$1\frac{1}{2} \times$	$1\frac{1}{4}$	4	$x \frac{4}{4}$	10	$x \frac{8}{8}$
$1\frac{1}{2} \times$	1	4	$x \frac{3}{2}$	12	$x \frac{12}{12}$
$1\frac{1}{2} \times$	$\frac{3}{4}$	4	$x \frac{3}{3}$	.....	.....

## RIGHT AND LEFT ELBOWS

$\frac{1}{4}$	$\frac{1}{2}$	1	$1\frac{1}{2}$	$2\frac{1}{2}$
$\frac{3}{8}$	$\frac{3}{4}$	$1\frac{1}{4}$	2	3

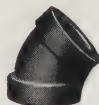
## 60° AND 22½° ELBOWS

$\frac{1}{2}$	$1\frac{1}{4}$	$2\frac{1}{2}$	5
$\frac{3}{4}$	$1\frac{1}{2}$	3	6
1	2	4	

## PITCHED ELBOWS

$\frac{1}{2}$	$1\frac{1}{2} \times 1$	$3 \times 2\frac{1}{2}$
$\frac{3}{4} \times \frac{1}{2}$	$1\frac{1}{2} \times 1\frac{1}{4}$	3
$\frac{3}{4}$	$1\frac{1}{2}$	$3\frac{1}{2} \times 3$
$1 \times \frac{3}{4}$	$2 \times 1\frac{1}{2}$	$3\frac{1}{2}$
1	2	4
$1\frac{1}{4} \times 1$	$2\frac{1}{2} \times 2$	....
$\frac{1}{4}$	$2\frac{1}{2}$	....

## 45° ELBOWS



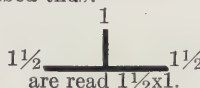
$\frac{1}{4}$	$1\frac{1}{4}$	$3\frac{1}{2}$	7
$\frac{3}{8}$	$1\frac{1}{2}$	4	8
$\frac{1}{2}$	2	$4\frac{1}{2}$	9
$\frac{3}{4}$	$2\frac{1}{2}$	5	10
1	3	6	12

**TEES  
STRAIGHT**



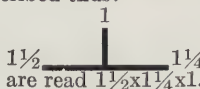
## REDUCING ON OUTLET

Tees reducing on the outlet are described thus:



## REDUCING ON RUN

Tees reducing on the run are described thus:

[illegible]

## CAST IRON FITTINGS

## LIST OF SIZES—TEES

1 1/4 x 1/4 x 1 1/4	2 x 3/4 x 2	3 x 2 1/2 x 3	4 x 3 1/2 x 3 1/2	5 x 4 x 4 1/2	7 x 6 x 6
1 1/4 x 1/2 x 1	2 x 3/4 x 1 1/2	3 x 2 1/2 x 2 1/2	4 x 3 1/2 x 3	5 x 4 x 4	7 x 6 x 5
1 x 1 x 1 1/4	2 x 1/2 x 1 1/2	3 x 2 1/2 x 2	4 x 3 1/2 x 2 1/2	5 x 4 x 3 1/2	7 x 6 x 4
1 x 3/4 x 1 1/4	2 x 1/4 x 2	3 x 2 1/2 x 1 1/2	4 x 3 1/2 x 2	5 x 4 x 3	7 x 6 x 3
3/4 x 3/4 x 1 1/4	2 x 1/2 x 2	3 x 2 1/2 x 1 1/4	4 x 3 1/2 x 1 1/2	5 x 4 x 2 1/2	7 x 5 x 6
1 1/2 x 1 1/2 x 1 1/2	1 1/2 x 1 1/2 x 2	3 x 2 1/2 x 1	4 x 3 1/2 x 1 1/4	5 x 4 x 2	7 x 5 x 5
1 1/2 x 1 1/2 x 1 1/4	1 1/2 x 1 1/4 x 2	3 x 2 1/2 x 3/4	4 x 3 1/2 x 1	5 x 4 x 1 1/2	6 x 6 x 7
1 1/2 x 1 1/2 x 1	1 1/2 x 1 x 2	3 x 2 x 3	4 x 3 x 4	5 x 3 1/2 x 3 1/2	5 x 5 x 7
1 1/2 x 1 1/2 x 3/4	1 1/2 x 3/4 x 2	3 x 2 x 2 1/2	4 x 3 x 3 1/2	5 x 3 x 5	8 x 8 x 8
1 1/2 x 1 1/2 x 1/2	1 1/4 x 1 1/4 x 2	3 x 2 x 2	4 x 3 x 3	5 x 3 x 4 1/2	8 x 8 x 7
1 1/2 x 1 1/4 x 1 1/2	1 1/4 x 1 x 2	3 x 2 x 1 1/2	4 x 3 x 2 1/2	5 x 3 x 4	8 x 8 x 6
1 1/2 x 1 1/4 x 1 1/4	1 1/4 x 3/4 x 2	3 x 2 x 1 1/4	4 x 3 x 2	5 x 3 x 3 1/2	8 x 8 x 5
1 1/2 x 1 1/4 x 1	1 x 1 x 2	3 x 2 x 1	4 x 3 x 1 1/2	5 x 3 x 3	8 x 8 x 4
1 1/2 x 1 1/4 x 3/4	1 x 3/4 x 2	3 x 1 1/2 x 3	4 x 3 x 1 1/4	5 x 3 x 2 1/2	8 x 8 x 3 1/2
1 1/2 x 1 1/4 x 1/2	3/4 x 3/4 x 2	3 x 1 1/2 x 2 1/2	4 x 3 x 1	5 x 3 x 2	8 x 8 x 3
1 1/2 x 1 x 1 1/2	2 1/2 x 2 1/2 x 2 1/2	3 x 1 1/2 x 2	4 x 3 x 3/4	5 x 2 1/2 x 5	8 x 8 x 2 1/2
1 1/2 x 1 x 1 1/4	2 1/2 x 2 1/2 x 2	3 x 1 1/4 x 3	4 x 2 1/2 x 4	5 x 2 1/2 x 4	8 x 8 x 2
1 1/2 x 1 x 1	2 1/2 x 2 1/2 x 1 1/2	3 x 1 x 3	4 x 2 1/2 x 3 1/2	5 x 2 1/2 x 3	8 x 8 x 1 1/2
1 1/2 x 1 x 3/4	2 1/2 x 2 1/2 x 1 1/4	2 1/2 x 2 1/2 x 3	4 x 2 1/2 x 3	5 x 2 x 5	8 x 8 x 1 1/4
1 1/2 x 1 x 1/2	2 1/2 x 2 1/2 x 1	2 1/2 x 2 x 3	4 x 2 1/2 x 2 1/2	5 x 1 1/4 x 5	8 x 7 x 8
1 1/2 x 3/4 x 1 1/2	2 1/2 x 2 1/2 x 3/4	2 1/2 x 1 1/2 x 3	4 x 2 1/2 x 2	4 x 4 x 5	8 x 7 x 6
1 1/2 x 3/4 x 1 1/4	2 1/2 x 2 1/2 x 1/2	2 x 2 x 3	4 x 2 1/2 x 1 1/2	6 x 6 x 6	8 x 7 x 5
1 1/2 x 3/4 x 1	2 1/2 x 2 x 2 1/2	3 1/2 x 3 1/2 x 3 1/2	4 x 2 1/2 x 1 1/4	6 x 6 x 5	8 x 7 x 4
1 1/2 x 3/4 x 3/4	2 1/2 x 2 x 2	3 1/2 x 3 1/2 x 3	4 x 2 1/2 x 1	6 x 6 x 4 1/2	8 x 7 x 3
1 1/2 x 1/2 x 1 1/2	2 1/2 x 2 x 1 1/2	3 1/2 x 3 1/2 x 2 1/2	4 x 2 x 4	6 x 6 x 4	8 x 6 x 8
1 1/2 x 1/2 x 1 1/4	2 1/2 x 2 x 1 1/4	3 1/2 x 3 1/2 x 2	4 x 2 x 3	6 x 6 x 3 1/2	8 x 6 x 7
1 1/2 x 3/8 x 1 1/2	2 1/2 x 2 x 1	3 1/2 x 3 1/2 x 1 1/2	4 x 2 x 2 1/2	6 x 6 x 3	8 x 6 x 6
1 1/4 x 1 1/4 x 1 1/2	2 1/2 x 2 x 3/4	3 1/2 x 3 1/2 x 1 1/4	4 x 2 x 2	6 x 6 x 2 1/2	8 x 5 x 8
1 1/4 x 1 x 1 1/2	2 1/2 x 2 x 1/2	3 1/2 x 3 1/2 x 1	4 x 1 1/2 x 4	6 x 6 x 2	8 x 5 x 5
1 1/4 x 3/4 x 1 1/2	2 1/2 x 1 1/2 x 2 1/2	3 1/2 x 3 1/2 x 3/4	4 x 1 1/4 x 4	6 x 6 x 1 1/2	8 x 4 x 8
1 1/4 x 1 1/2 x 1 1/2	2 1/2 x 1 1/2 x 2	3 1/2 x 3 x 3 1/2	4 x 1 x 4	6 x 6 x 1 1/4	8 x 4 x 6
1 x 1 x 1 1/2	2 1/2 x 1 1/2 x 1 1/2	3 1/2 x 3 x 3	3 1/2 x 3 1/2 x 4	6 x 6 x 1	6 x 6 x 8
1 x 3/4 x 1 1/2	2 1/2 x 1 1/2 x 1 1/4	3 1/2 x 3 x 2 1/2	3 x 3 x 4	6 x 5 x 6	9 x 9 x 9
3/4 x 3/4 x 1 1/2	2 1/2 x 1 1/2 x 1	3 1/2 x 3 x 2	2 1/2 x 2 1/2 x 4	6 x 5 x 5	9 x 9 x 7
2 x 2 x 2	2 1/2 x 1 1/4 x 2 1/2	3 1/2 x 3 x 1 1/2	2 x 2 x 4	6 x 5 x 4	9 x 9 x 6
2 x 2 x 1 1/2	2 1/2 x 1 1/4 x 2	3 1/2 x 3 x 1 1/4	4 1/2 x 4 1/2 x 4 1/2	6 x 5 x 3 1/2	9 x 9 x 5
2 x 2 x 1 1/4	2 1/2 x 1 1/4 x 1 1/2	3 1/2 x 3 x 1	4 1/2 x 4 1/2 x 4	6 x 5 x 3	10 x 10 x 10
2 x 2 x 1	2 1/2 x 1 x 2 1/2	3 1/2 x 3 x 3/4	4 1/2 x 4 1/2 x 3 1/2	6 x 5 x 2 1/2	10 x 10 x 8
2 x 2 x 3/4	2 1/2 x 1 x 2	3 1/2 x 2 1/2 x 3 1/2	4 1/2 x 4 1/2 x 3	6 x 5 x 1 1/2	10 x 10 x 6
2 x 2 x 1/2	2 1/2 x 3/4 x 2 1/2	3 1/2 x 2 1/2 x 3	4 1/2 x 4 1/2 x 2 1/2	6 x 4 x 6	10 x 10 x 5
2 x 2 x 1/4	2 1/2 x 1/2 x 2 1/2	3 1/2 x 2 1/2 x 2 1/2	4 1/2 x 4 1/2 x 2	6 x 4 x 4	10 x 10 x 4
2 x 1 1/2 x 2	2 x 2 x 2 1/2	3 1/2 x 2 1/2 x 2	4 1/2 x 4 1/2 x 1 1/2	6 x 4 x 3	10 x 10 x 3
2 x 1 1/2 x 1 1/2	2 x 1 1/2 x 2 1/2	3 1/2 x 2 x 3 1/2	4 1/2 x 4 1/2 x 1 1/4	6 x 3 x 6	10 x 10 x 2
2 x 1 1/2 x 1 1/4	2 x 1 1/4 x 2 1/2	3 1/2 x 1 1/2 x 3 1/2	4 1/2 x 4 1/2 x 1	6 x 2 1/2 x 6	10 x 8 x 8
2 x 1 1/2 x 1	2 x 1 x 2 1/2	3 1/2 x 1 1/4 x 3 1/2	4 1/2 x 4 x 3	6 x 2 x 6	8 x 8 x 10
2 x 1 1/2 x 3/4	2 x 3/4 x 2 1/2	3 1/2 x 1 x 3 1/2	5 x 5 x 5	5 x 5 x 6	12 x 12 x 12
2 x 1 1/2 x 1/2	1 1/2 x 1 1/2 x 2 1/2	3 x 3 x 3 1/2	5 x 5 x 4 1/2	5 x 3 1/2 x 6	12 x 12 x 10
2 x 1 1/4 x 2	1 1/2 x 1 1/4 x 2 1/2	4 x 4 x 4	5 x 5 x 4	4 x 4 x 6	12 x 12 x 8
2 x 1 1/4 x 1 1/2	1 1/2 x 1 x 2 1/2	4 x 4 x 3 1/2	5 x 5 x 3 1/2	7 x 7 x 7	12 x 12 x 6
2 x 1 1/4 x 1 1/4	3 x 3 x 3	4 x 4 x 3	5 x 5 x 3	7 x 7 x 6	12 x 12 x 5
2 x 1 1/4 x 1	3 x 3 x 2 1/2	4 x 4 x 2 1/2	5 x 5 x 2 1/2	7 x 7 x 5	12 x 12 x 4
2 x 1 1/4 x 3/4	3 x 3 x 2	4 x 4 x 2	5 x 5 x 2	7 x 7 x 4	12 x 8 x 10
2 x 1 x 2	3 x 3 x 1 1/2	4 x 4 x 1 1/2	5 x 5 x 1 1/2	7 x 7 x 3 1/2	12 x 8 x 8
2 x 1 x 1 1/2	3 x 3 x 1 1/4	4 x 4 x 1 1/4	5 x 5 x 1 1/4	7 x 7 x 3	.....
2 x 1 x 1 1/4	3 x 3 x 1	4 x 4 x 1	5 x 5 x 1	7 x 7 x 2 1/2	.....
2 x 1 x 1	3 x 3 x 3/4	4 x 4 x 3/4	5 x 5 x 3/4	7 x 7 x 2	.....
2 x 1 x 3/4	3 x 3 x 1/2	4 x 3 1/2 x 4	5 x 4 x 5	7 x 6 x 7	.....

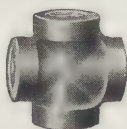


# CAST IRON FITTINGS

## LIST OF SIZES

### CROSSES

#### STRAIGHT



#### REDUCING



1/2x 1/2x 1/2x 1/2	2 1/2x2 1/2x1 1/2x1 1/4
3/4x 3/4x 3/4x 3/4	2 1/2x2 1/2x1 1/2x1
3/4x 3/4x 1 1/2x 1/2	2 1/2x2 1/2x1 1/4x1 1/4
3/4x 1 1/2x 1 1/2x 1/2	2 1/2x2 1/2x1 1/4x1
1 x1 x1 x1	2 1/2x2 1/2x1 1/4x 3/4
1 x1 x 3/4x 3/4	2 1/2x2 1/2x1 x1
1 x1 x 1 1/2x 1/2	2 1/2x2 1/2x1 x 3/4
1 x 3/4x 3/4x 3/4	2 1/2x2 1/2x 3/4x 3/4
1 1/4x1 1/4x1 1/4x1 1/4	2 1/2x2 x2 x1 1/2
1 1/4x1 1/4x1 x1	2 1/2x2 x2 x1 1/4
1 1/4x1 1/4x 3/4x 3/4	2 1/2x2 x2 x1
1 1/4x1 1/4x 1 1/2x 1/2	2 1/2x2 x1 1/2x1 1/2
1 1/4x1 x1 x1	2 1/2x2 x1 1/2x1 1/4
1 1/4x1 x 3/4x 3/4	2 1/2x2 x1 1/2x1
1 1/4x 3/4x 3/4x 3/4	2 1/2x2 x1 1/2x 3/4
1 1/2x1 1/2x1 1/2x1 1/2	2 1/2x2 x1 1/4x1 1/4
1 1/2x1 1/2x1 1/4x1 1/4	2 1/2x2 x1 1/4x1
1 1/2x1 1/2x1 x1	2 1/2x2 x1 x1
1 1/2x1 1/2x 3/4x 3/4	2 1/2x2 x 3/4x 3/4
1 1/2x1 1/2x 1 1/2x 1/2	2 1/2x1 1/2x2 x1 1/2
1 1/2x1 1/4x1 1/4x1 1/4	2 1/2x1 1/2x1 1/2x1
1 1/2x1 1/4x1 x1	2 1/2x1 1/2x1 1/4x1 1/4
1 1/2x1 1/4x 3/4x 3/4	3 x3 x3 x3
1 1/2x1 x1 x 3/4	3 x3 x2 1/2x2 1/2
1 1/2x1 x1 x 1 1/2	3 x3 x2 x2
1 1/2x1 x 3/4x 3/4	3 x3 x2 x1 1/2
2 x2 x2 x2	3 x3 x2 x1
2 x2 x1 1/2x1 1/2	3 x3 x1 1/2x1 1/2
2 x2 x1 1/4x1 1/4	3 x3 x1 1/2x 3/4
2 x2 x1 1/4x1	3 x3 x1 1/4x1 1/4
2 x2 x1 x1	3 x3 x1 1/2x1
2 x2 x1 x 3/4	3 x3 x1 1/2x 3/4
2 x2 x 3/4x 3/4	3 x3 x1 1/4x1 1/4
2 x2 x 1 1/2x 1/2	3 x3 x1 1/4x1
2 x1 1/2x1 1/2x1 1/2	3 x3 x1 1/4x 3/4
2 x1 1/2x1 1/4x1 1/4	3 x3 x1 x1
2 x1 1/2x1 1/4x1	3 x3 x 3/4x 3/4
2 x1 1/2x1 x1	3 x2 1/2x2 1/2x2
2 x1 1/2x1 x 3/4	3 x2 1/2x2 x2
2 x1 1/2x1 x 3/4	3 x2 1/2x2 x1 1/2
2 x1 x1 1/2x1	3 x2 1/2x2 x1 1/4
2 1/2x2 1/2x2 1/2x2 1/2	3 x2 1/2x2 x1
2 1/2x2 1/2x2 x2	3 x2 1/2x2 x 3/4
2 1/2x2 1/2x1 1/2x1 1/2	3 x2 1/2x1 1/2x1 1/2

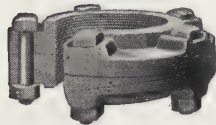
3 x2 1/2x1 1/2x1 1/4	3 1/2x3 1/2x3 1/2x3 1/2
3 x2 1/2x1 1/2x1	3 1/2x3 1/2x3 x3
3 x2 1/2x1 1/4x1 1/4	3 1/2x3 1/2x2 1/2x2 1/2
3 x2 1/2x1 1/4x1	3 1/2x3 1/2x2 x2
3 x2 1/2x1 x1	3 1/2x3 1/2x2 x1 1/2
3 x2 x2 x2	3 1/2x3 1/2x1 1/2x1 1/2
3 1/2x3 1/2x3 1/2x3 1/2	3 1/2x3 1/2x1 1/2x1 1/4
3 1/2x3 1/2x3 x3	3 1/2x3 1/2x1 1/4x1 1/4
3 1/2x3 1/2x2 1/2x2 1/2	3 1/2x3 1/2x1 1/4x1
3 1/2x3 1/2x2 x2	3 1/2x3 1/2x1 x1
3 1/2x3 1/2x2 x1 1/2	3 1/2x3 x2 1/2x2
3 1/2x3 1/2x1 1/2x1 1/2	3 1/2x3 x2 x2
3 1/2x3 1/2x1 1/2x1 1/4	3 1/2x3 x2 x1 1/2
3 1/2x3 1/2x1 1/4x1 1/4	3 1/2x3 x2 x1 1/4
3 1/2x3 1/2x1 1/4x1	3 1/2x3 x1 1/2x1 1/2
3 1/2x3 1/2x1 x1	3 1/2x3 x1 1/2x1 1/4
3 1/2x3 x2 1/2x2	3 1/2x3 x1 1/4x1 1/4
3 1/2x3 x2 x2	3 1/2x3 x1 1/4x1
3 1/2x3 x2 x1 1/2	3 1/2x3 x1 x1
3 1/2x3 x2 x1 1/4	4 x4 x4 x4
3 1/2x3 x1 1/2x1 1/2	4 x4 x3 1/2x3 1/2
3 1/2x3 x1 1/4x1 1/4	4 x4 x3 x3
3 1/2x3 x1 1/4x1	4 x4 x2 1/2x2 1/2
3 1/2x3 x1 x1	4 x4 x2 x2
4 x4 x4 x4	4 x4 x2 x1 1/2
4 x4 x3 1/2x3 1/2	4 x4 x1 1/2x1 1/2
4 x4 x3 x3	4 x4 x1 1/2x1 1/4
4 x4 x2 1/2x2 1/2	4 x4 x1 1/2x1
4 x4 x2 x2	4 x4 x1 1/4x1 1/4
4 x4 x2 x1 1/2	4 x4 x1 1/4x1
4 x4 x1 1/2x1 1/2	4 x3 1/2x2 1/2x2
4 x4 x1 1/2x1 1/4	4 x3 1/2x2 x2
4 x4 x1 1/2x1	4 x3 1/2x2 x1 1/2
4 x4 x1 1/4x1 1/4	4 x3 1/2x2 x1 1/4
4 x4 x1 1/4x1	4 x3 1/2x1 1/2x1 1/2
4 x4 x1 1/4x1 1/4	4 x3 1/2x1 1/2x1 1/4

4 x 3 1/2x 1 1/4x 1 1/4	5 x 5 x 5 x 5
4 x 3 1/2x 1 1/4x 1	5 x 5 x 4 x 4
4 1/2x 4 1/2x 4 1/2x 4 1/2	5 x 5 x 3 x 3
5 x 5 x 5 x 5	5 x 5 x 2 1/2x 2 1/2
5 x 5 x 4 x 4	5 x 5 x 2 x 2
5 x 5 x 3 x 3	5 x 5 x 2 x 1 1/2
5 x 5 x 2 1/2x 2 1/2	5 x 5 x 1 1/2x 1 1/2
5 x 5 x 2 x 2	5 x 5 x 1 1/2x 1 1/4
5 x 5 x 1 1/2x 1 1/2	5 x 5 x 1 x 1
5 x 5 x 1 1/2x 1 1/4	5 x 4 x 2 x 2
5 x 5 x 1 x 1	5 x 4 x 2 x 1 1/2
5 x 4 x 2 x 2	5 x 4 x 1 1/2x 1 1/2
5 x 4 x 2 x 1 1/2	5 x 4 x 1 1/2x 1 1/4
5 x 4 x 1 1/2x 1 1/2	5 x 4 x 1 x 1
5 x 4 x 1 1/2x 1 1/4	6 x 6 x 6 x 6
5 x 4 x 1 x 1	6 x 6 x 5 x 5
6 x 6 x 6 x 6	6 x 6 x 4 x 4
6 x 6 x 5 x 5	6 x 6 x 3 x 3
6 x 6 x 4 x 4	6 x 6 x 2 1/2x 2 1/2
6 x 6 x 3 x 3	6 x 6 x 2 x 2
6 x 6 x 2 1/2x 2 1/2	6 x 6 x 2 x 1 1/2
6 x 6 x 2 x 2	6 x 6 x 1 1/2x 1 1/2
6 x 6 x 2 x 1 1/2	6 x 5 x 2 x 2
6 x 6 x 1 1/2x 1 1/2	6 x 5 x 2 x 1 1/2
6 x 5 x 2 x 2	6 x 5 x 1 1/2x 1 1/2
6 x 5 x 2 x 1 1/2	7 x 7 x 7 x 7
6 x 5 x 1 1/2x 1 1/2	7 x 7 x 6 x 6
7 x 7 x 7 x 7	7 x 7 x 5 x 5
7 x 7 x 6 x 6	8 x 8 x 8 x 8
7 x 7 x 5 x 5	8 x 8 x 7 x 7
8 x 8 x 8 x 8	8 x 8 x 6 x 6
8 x 8 x 7 x 7	8 x 8 x 5 x 5
8 x 8 x 6 x 6	8 x 8 x 4 x 4
8 x 8 x 5 x 5	9 x 9 x 9 x 9
8 x 8 x 4 x 4	10 x10 x10 x10
9 x 9 x 9 x 9	10 x10 x8 x8
10 x10 x10 x10	10 x10 x7 x7
10 x10 x8 x8	12 x12 x12 x12
10 x10 x7 x7	12 x12 x10 x10
12 x12 x12 x12	12 x12 x12 x8
12 x12 x10 x10	.....
12 x12 x12 x8	



## FLANGE UNIONS

**CAST IRON  
FACED**



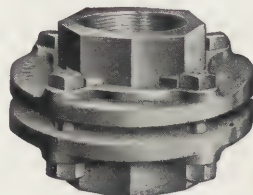
J-4652

**MALLEABLE IRON  
FACED**



J-4654

**KEWANEE  
GROUND BALL JOINT**



J-4656

### CAST IRON

Size.....inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2
Diameter of Flanges "	2 3/4	3 3/8	3 5/8	4 1/8	4 1/2	5 1/8	5 7/8
Number of Bolts in Each..	3	3	3	4	4	4	4
Price, Black.....each	.40	.46	.52	.64	.78	1.00	1.25
" Galvanized.... "	.80	.92	1.04	1.28	1.56	2.00	2.50
Size.....inches	3	3 1/2	4	4 1/2	5	6	7
Diameter of Flanges "	6 5/8	7 1/4	7 3/4	8 3/8	9 1/8	10 3/8	11 5/8
Number of Bolts in Each..	4	4	5	5	5	6	7
Price, Black.....each	1.50	1.80	2.10	2.70	3.15	3.95	5.50
" Galvanized.... "	3.00	3.60	4.20	5.40	6.30	7.90	11.00
Size.....inches	8	9	10	12	14	15	16
Diameter of Flanges "	12 3/4	13 7/8	15 1/2	17 1/2	20 5/8	20 5/8	23
Number of Bolts in Each..	8	9	10	12	14	14	16
Price, Black.....each	7.00	10.00	11.50	16.00	28.00	35.00	60.00
" Galvanized.... "	14.00	20.00	23.00	32.00	56.00	70.00	.....

Gasket is extra.

### MALLEABLE IRON

Size.....inches	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Diameter of Flanges "	2 7/8	3 1/4	3 3/4	4 5/8	5 1/2	6	6 3/4
Number of Bolts in Each..	3	4	4	4	4	4	4
Price, Black.....each	1.40	1.60	2.00	2.50	3.00	3.50	4.40
" Galvanized.... "	2.80	3.20	4.00	5.00	6.00	7.00	8.80
Size.....inches	3 1/2	4	4 1/2	5	6	8	.....
Diameter of Flanges "	7 1/2	8	8 5/8	9 3/8	10 5/8	13 1/8	.....
Number of Bolts in Each..	4	5	5	5	6	7	.....
Price, Black.....each	5.25	6.00	7.00	8.00	9.00	18.00	.....
" Galvanized.... "	10.50	12.00	14.00	16.00	18.00	36.00	.....

Gasket is extra.

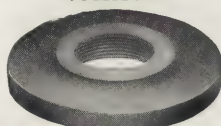
### KEWANEE BRASS AND MALLEABLE IRON SELF-SEATING BALL JOINT

Size.....inches	1	1 1/4	1 1/2	2	2 1/2
Price, Black.....each	.80	1.20	1.60	2.00	3.20
" Galvanized..... "	1.10	1.60	2.15	2.70	4.30
Size.....inches	3	3 1/2	4	4 1/2	5
Price, Black.....each	4.80	6.00	7.50	8.75	10.00
" Galvanized..... "	6.50	8.10	10.15	11.80	13.50
Size.....inches	6	7	8	9	10
Price, Black.....each	12.50	15.00	18.00	21.60	28.80
" Galvanized..... "	16.90	20.25	24.30	29.15	38.90

## CAST IRON FITTINGS

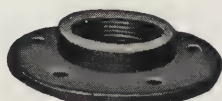
### FLANGES

**COMMON**



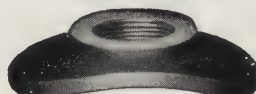
**J-4958**

**FLOOR**



**J-4660**

**CIRCULAR**



**J-4662**

### COMMON, NOT FACED

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
3/4x4	.22	3 x 7	.62	5x12	2.20	8x15	4.00
3/4x5	.30	3 x 7 1/2	.75	5x12 1/2	2.20	8x16	5.00
1 x 5	.30	3 x 8	.90	6x10	1.50	9x15	4.00
1 x 6	.42	3 x 9	1.15	6x11	1.75	9x16	5.00
1 1/4x4 1/2	.25	3 1/2x 8	.90	6x12	2.20	9x17	5.75
1 1/4x5	.30	3 1/2x 8 1/2	1.00	6x12 1/2	2.20	10x16	5.00
1 1/4x6	.40	3 1/2x 9	1.15	6x13	2.80	10x17	5.75
1 1/2x5	.30	3 1/2x10	1.50	6x13 1/2	2.80	10x18	7.00
1 1/2x6	.40	4 x 8	.90	6x14	3.25	10x19	7.50
2 x 6	.42	4 x 8 1/2	1.00	7x12	2.20	12x18	7.00
2 x 6 1/2	.50	4 x 9	1.15	7x12 1/2	2.20	12x19	7.50
2 x 7	.62	4 x10	1.50	7x13	2.80	12x20	8.50
2 x 8	.90	4 1/2x 9	1.15	7x13 1/2	2.80	14x20	8.50
2 1/2x6	.42	4 1/2x 9 1/4	1.25	7x14	3.25	14x21	9.50
2 1/2x6 1/2	.50	4 1/2x10	1.50	7x15	4.00	15x21	9.50
2 1/2x7	.62	4 1/2x11	1.75	8x13	2.80	15x22 1/4	14.00
2 1/2x8	.90	5 x10	1.50	8x13 1/2	2.80	16x23 1/2	18.00
3 x 6 1/2	.50	5 x11	1.75	8x14	3.25	.....	.....

### FLOOR, NOT FACED, COUNTERSUNK SCREW HOLE

Size.....inches	3/8x3	1/2x3 1/2	3/4x3 1/2	1x4	1 1/4x4	1 1/2x4 1/2	2x5 1/2
Price.....each	.10	.15	.15	.16	.16	.22	.35

All floor flanges are drilled for screw. Galvanized take double the list.

### CIRCULAR

Pipe.....inches	1 1/2	2	2 1/2	3	4	5	6	7	8	9	10	12
Diameter Flange....."	6	7	8	9	9	11	12	13	14	17	18	20

These flanges being made to order, it is always necessary to give the circle they are to fit.

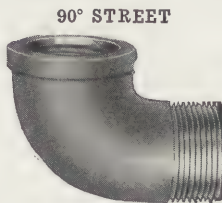
## MALLEABLE IRON FITTINGS



J-4664



J-4666



J-4670



J-4672

### 90° STRAIGHT AND REDUCING ELBOWS

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/8	.06	.08	2	.50	.90
1/4	.07	.09	2 1/2	.90	1.50
3/8	.08	.11	3	1.50	2.60
1/2	.10	.14	3 1/2	2.25	3.75
3/4	.15	.20	4	3.00	5.00
1	.22	.32	4 1/2	3.50	...
1 1/4	.25	.40	5	4.00	6.50
1 1/2	.35	.60	6	6.50	10.00

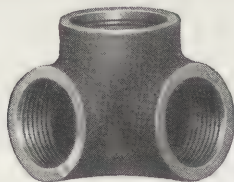
### 90° RIGHT AND LEFT ELBOWS

1/4	.09	.12	1	.25	.35
3/8	.11	.16	1 1/4	.30	.45
1/2	.13	.17	1 1/2	.40	.65
3/4	.17	.23	2	.65	1.00

### 45° ELBOWS

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/4	.08	.12	2 1/2	1.25	1.90
3/8	.10	.15	3	2.50	3.75
1/2	.12	.20	3 1/2	3.25	4.75
3/4	.18	.25	4	4.50	6.75
1	.26	.40	4 1/2	5.25	...
1 1/4	.36	.50	5	6.00	9.00
1 1/2	.54	.85	6	7.50	11.00
2	.82	1.35	...	...	...

### SIDE OUTLET ELBOWS



J-4668

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/4	.08	.10	1	.30	.45
3/8	.08	.10	1 1/4	.45	.65
1/2	.10	.15	1 1/2	.60	.90
3/4	.18	.25	2	1.00	1.50

### 90° STREET ELBOWS

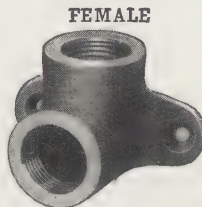
Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/8	.08	.10	1 1/4	.40	.55
1/4	.10	.12	1 1/2	.55	.80
3/8	.10	.12	2	.90	1.30
1/2	.12	.15	2 1/2	1.50	2.25
3/4	.20	.28	3	2.25	3.50
1	.25	.35	4	3.50	...

### 45° STREET ELBOWS

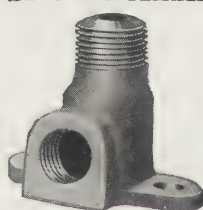
Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/8	.12	.15	1 1/4	.40	.55
1/4	.12	.15	1 1/2	.55	.80
3/8	.12	.15	2	.90	1.30
1/2	.12	.15	2 1/2	...	...
3/4	.20	.28	3	2.25	...
1	.25	.35	4	3.50	...

### DROP ELBOWS

#### MALE AND FEMALE



J-4674



J-4676

### FEMALE DROP ELBOWS

Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/4	.06	.09
3/8	.08	.12
1/2	.12	.20
3/4	.20	.35

### MALE AND FEMALE DROP ELBOWS

Size In.	PRICE, EACH Black	PRICE, EACH Galv.
3/8	.08	.12
1/2	.12	.20

# MALLEABLE IRON FITTINGS

## STRAIGHT TEES



J-4678

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/8	.07	.09	2	.60	1.00
1/4	.08	.10	2 1/2	1.05	1.90
3/8	.09	.13	3	1.70	3.00
1/2	.11	.16	3 1/2	2.50	4.25
3/4	.15	.20	4	3.40	5.75
1	.25	.38	4 1/2	4.25	6.75
1 1/4	.30	.50	5	5.00	8.00
1 1/2	.45	.70	6	7.75	12.00

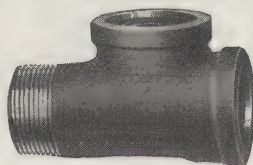
## REDUCING TEES



J-4680

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/8	.07	.09	2	.60	1.00
1/4	.08	.10	2 1/2	1.05	1.90
3/8	.09	.13	3	1.70	3.00
1/2	.11	.16	3 1/2	2.50	4.25
3/4	.15	.20	4	3.40	5.75
1	.25	.38	4 1/2	4.25	6.75
1 1/4	.30	.50	5	5.00	8.00
1 1/2	.45	.70	6	7.75	12.00

## SERVICE TEES



J-4682

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
3/8	.12	.15	2	1.15	1.65
1/2	.15	.20	2 1/2	2.00	2.75
3/4	.25	.35	3	2.50	3.50
1	.35	.50	3x2 1/2x3	2.50	3.50
1 1/4	.50	.70	3x3 x4	4.00	6.00
1 1/2	.75	1.10			

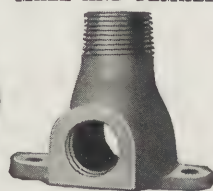
## TEES

### FEMALE

### MALE AND FEMALE



J-4684



J-4686

Size In.	PRICE, EACH FEMALE Black	PRICE, EACH FEMALE Galv.	PRICE, EACH MALE AND FEMALE Black	PRICE, EACH MALE AND FEMALE Galv.
3/8	.10	.15	.10	.15
1/2	.14	.25	.14	.25
3/4	.22	.40	.22	.40
1	.30	.55	.30	.55

## FOUR-WAY TEES



J-4688

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/4	.08	.12	1	.35	.50
3/8	.12	.17	1 1/4	.50	.70
1/2	.14	.20	1 1/2	.80	1.10
3/4	.20	.28	2	1.25	1.75

## STRAIGHT AND REDUCING CROSSES



J-4690

Size In.	PRICE, EACH Black	PRICE, EACH Galv.	Size In.	PRICE, EACH Black	PRICE, EACH Galv.
1/4	.09	.12	2	1.00	1.50
3/8	.10	.14	2 1/2	1.75	2.75
1/2	.16	.25	3	3.00	4.50
3/4	.20	.29	3 1/2	3.25	5.00
1	.30	.45	4	5.25	8.00
1 1/4	.40	.60	5	7.50	12.00
1 1/2	.60	.90	6	13.00	18.00



## MALLEABLE IRON FITTINGS

### STRAIGHT AND REDUCING Y BRANCHES



J-4692

Size Inches	PRICE, EACH Black Galv.	Size Inches	PRICE, EACH Black Galv.
$\frac{1}{2}$	.40 .60	2	1.70 2.50
$\frac{3}{4}$	.50 .75	$2\frac{1}{2}$	2.00 3.00
1	.60 .90	3	4.00 6.00
$1\frac{1}{4}$	.80 1.25	4	5.50 8.25
$1\frac{1}{2}$	1.00 1.50	...	....

### REGULAR CROSSOVERS



J-4694

Size Inches	To Cross Pipe Inches	Price Each	Size Inches	To Cross Pipe Inches	Price Each
$\frac{1}{2}$	$\frac{1}{2}$	.22	$\frac{3}{4}$	1	.50
$\frac{1}{2}$	$\frac{3}{4}$	.35	$\frac{3}{4}$	$1\frac{1}{4}$	.62
$\frac{1}{2}$	1	.45	1	1	.49
$\frac{1}{2}$	$1\frac{1}{4}$	.60	1	$1\frac{1}{4}$	.68
$\frac{3}{4}$	$\frac{3}{4}$	.32	...	...	...

### CROSSOVERS WITH BACK OUTLET



J-4696

Size Inches	To Cross Pipe Inches	Price Galvanized Each
$\frac{1}{2}$	$\frac{1}{2}$	.26
$\frac{3}{4}$	$\frac{3}{4}$	.39
1	1	.60

### COUPLINGS

RIGHT AND  
LEFT HAND

#### REDUCING



J-4698



J-4700

#### REDUCING

Size Inches	PRICE, EACH Black Galv.	Size Inches	PRICE, EACH Black Galv.
$\frac{1}{4}$	.05 .08	$1\frac{1}{2}$	.28 .45
$\frac{3}{8}$	.06 .10	2	.45 .75
$\frac{1}{2}$	.07 .10	$2\frac{1}{2}$	.70 1.05
$\frac{3}{4}$	.10 .15	3	1.00 1.65
1	.16 .25	$3\frac{1}{2}$	1.50 2.40
$1\frac{1}{4}$	.20 .35	4	1.85 3.05

#### RIGHT AND LEFT HAND

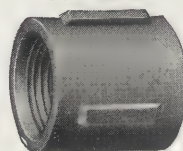
Size Inches	PRICE, EACH Black Galv.	Size Inches	PRICE, EACH Black Galv.
$\frac{1}{4}$	.04 .06	$1\frac{1}{4}$	.25 .35
$\frac{3}{8}$	.06 .09	$1\frac{1}{2}$	.36 .55
$\frac{1}{2}$	.08 .10	2	.52 .75
$\frac{3}{4}$	.12 .17	$2\frac{1}{2}$	.70 1.05
1	.16 .25	3	1.00 1.50

### LONG SCREW COUPLINGS AND FOLLOWERS

#### COUPLING

FACED

#### FOLLOWER



J-4702



J-4704

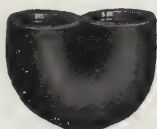
#### COUPLINGS

Size Inches	PRICE, EACH Black Galv.	Size Inches	PRICE, EACH Black Galv.
$\frac{1}{4}$	.09 .14	$1\frac{1}{4}$	.30 .45
$\frac{3}{8}$	.10 .15	$1\frac{1}{2}$	.40 .60
$\frac{1}{2}$	.12 .18	2	.50 .75
$\frac{3}{4}$	.16 .24	$2\frac{1}{2}$	.70 1.00
1	.22 .33	3	.90 1.35

#### FOLLOWERS

Size Inches	PRICE, EACH Black Galv.	Size Inches	PRICE, EACH Black Galv.
$\frac{1}{4}$	.08 .11	$1\frac{1}{4}$	.20 .30
$\frac{3}{8}$	.09 .13	$1\frac{1}{2}$	.25 .35
$\frac{1}{2}$	.10 .15	2	.30 .45
$\frac{3}{4}$	.12 .18	$2\frac{1}{2}$	.35 .50
1	.15 .22	3	.45 .65

## CLOSE PATTERN



J-4706

Size In.	Center to Center Inches	PRICE, EACH		
		RIGHT-HAND Black	Right Galv.	Left and Left Black
$\frac{3}{8}$	...	.16	.23	....
$\frac{1}{2}$	1	.18	.25	.23
$\frac{3}{4}$	$1\frac{1}{4}$	.25	.35	.30
1	$1\frac{1}{2}$	.35	.55	.45
$1\frac{1}{4}$	$1\frac{3}{4}$	.50	.75	.60
$1\frac{1}{2}$	$2\frac{3}{16}$	.75	1.15	.90
2	$2\frac{5}{8}$	1.00	1.65	1.25

### MEDIUM PATTERN



J-4710

Size In.	Center to Center Inches	PRICE, EACH			
		RIGHT-HAND Black	Galv.	Right and Left Black	Left-hand Black
$\frac{3}{8}$	$1\frac{5}{32}$	.16	.23	...	...
$\frac{1}{2}$	$1\frac{1}{4}$	.18	.25	.23	.23
$\frac{3}{4}$	$1\frac{1}{2}$	.25	.35	.30	.30
1	$1\frac{7}{8}$	.35	.55	.45	.45
$1\frac{1}{4}$	$2\frac{1}{4}$	.50	.75	.60	.60
$1\frac{1}{2}$	$2\frac{1}{2}$	.75	1.15	.90	.90
2	3	1.00	1.65	1.25	1.25

## OPEN PATTERN



**J-4708**

Size In.	Center to Center Inches	PRICE, EACH			
		RIGHT-HAND Black	Galv.	Right and Left Black	Left- hand Black
$\frac{3}{8}$	$1\frac{3}{8}$	.18	.25	...	...
$\frac{1}{2}$	$1\frac{1}{2}$	.20	.28	.25	.25
$\frac{3}{4}$	2	.30	.45	.38	.38
1	$2\frac{1}{2}$	.50	.70	.60	.60
$1\frac{1}{4}$	3	.65	.90	.80	.80
$1\frac{1}{2}$	$3\frac{1}{2}$	.85	1.25	1.05	1.05
2	4	1.25	2.00	1.55	1.55
$2\frac{1}{2}$	$4\frac{1}{2}$	2.00	3.50	2.50	2.50
3	5	3.00	5.00	3.75	3.75

## SPECIAL WIDE PATTERN



J-4712

.Size Inches	Center to Center Inches	PRICE, EACH	
		Black	Galv.
$\frac{3}{8}$	$1\frac{1}{8}$	.25	.30
$\frac{3}{4}$	4	1.00	1.35
$\frac{3}{4}$	6	1.25	1.65
1	4	1.25	1.70
1	6	1.25	1.70
$1\frac{1}{4}$	6	1.25	1.70
$1\frac{1}{2}$	6	2.00	2.75
2	5	3.00	4.00
2	6	4.00	5.00
3	$7\frac{1}{2}$	5.00	6.50
3	8	5.00	6.50
4	6	8.00	10.00
6	12	16.00	20.00

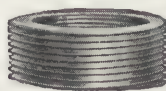
## MALLEABLE IRON FITTINGS

BUSHING



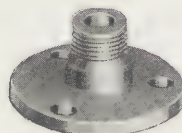
J-4714

FACED BUSHING



J-4716

WALL PLATES



J-4722

## BUSHINGS

## REDUCING ONE SIZE ONLY

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
$\frac{1}{4}$	.04	.08	$1\frac{1}{4}$	.07	.14
$\frac{3}{8}$	.04	.08	$1\frac{1}{2}$	.09	.18
$\frac{1}{2}$	.04	.08	2	.14	.28
$\frac{3}{4}$	.05	.10	$2\frac{1}{2}$	.21	.42
1	.06	.12	...	...	...

Size.....inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Price.....each	.12	.16	.30

## FACED BUSHINGS

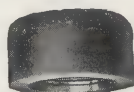
Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
$\frac{3}{8}$	.08	.12	$2\frac{1}{2}$	.48	.72
$\frac{1}{2}$	.09	.14	3	.70	1.05
$\frac{3}{4}$	.11	.17	$3\frac{1}{2}$	1.20	1.80
1	.13	.20	4	1.50	2.25
$1\frac{1}{4}$	.17	.25	$4\frac{1}{2}$	2.10	3.15
$1\frac{1}{2}$	.22	.33	5	2.60	3.90
2	.32	.48	6	3.75	5.60

## CAP

LOCKNUT



J-4718



J-4720

## LOCKNUTS

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
$\frac{1}{4}$	.02	.03	1	.07	.10
$\frac{3}{8}$	.03	.04	$1\frac{1}{4}$	.09	.14
$\frac{1}{2}$	.04	.05	$1\frac{1}{2}$	.11	.20
$\frac{3}{4}$	.05	.07	2	.18	.30

## CAPS

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
$\frac{1}{8}$	.03	.04	2	.32	.52
$\frac{1}{4}$	.03	.04	$2\frac{1}{2}$	.45	.76
$\frac{3}{8}$	.04	.05	3	.85	1.30
$\frac{1}{2}$	.05	.08	$3\frac{1}{2}$	1.00	1.60
$\frac{3}{4}$	.08	.12	4	1.20	2.00
1	.12	.17	5	2.50	3.50
$1\frac{1}{4}$	.16	.24	6	3.50	5.00
$1\frac{1}{2}$	.24	.38	...	....	....

## WASH TRAY ELBOWS

LEFT-HAND

RIGHT-HAND



J-4724

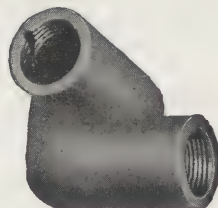


J-4726

Size Inches	$\frac{1}{2}$	$\frac{3}{4}$
Price, Each	.18	.25

PRICE, EACH	Black	Galv.
	.18	.20
	.25	.30

## WASH TRAY TEE



J-4728

## GALVANIZED

Size Inches	PRICE, EACH	
	Standard	Extra Long
$\frac{1}{2}$	.20	.25
$\frac{3}{4}$	.30	.35
$1\frac{1}{2} \times \frac{3}{4}$	.30	.35

Finished brass and nickel-plated wash tray fittings on application.

# STANDARD MALLEABLE IRON FITTINGS

## CLASSIFICATION AND PRICE LIST

EFFECTIVE SEPTEMBER 15, 1919

PLAIN



**ELBOWS**

Size, Inches	Class
$\frac{1}{8}$ , $\frac{1}{4}$ x $\frac{1}{8}$ , $\frac{3}{8}$ x $\frac{1}{8}$ .....	A
$\frac{1}{4}$ , $\frac{3}{8}$ x $\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ x $\frac{1}{4}$ , $\frac{1}{2}$ x $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ x- $\frac{3}{8}$ , $\frac{3}{4}$ x $\frac{1}{2}$ , $1$ x $\frac{3}{8}$ , $1$ x $\frac{1}{2}$ .....	B
$\frac{3}{4}$ , $1$ x $\frac{3}{4}$ and larger.....	C

**60° ELBOWS**

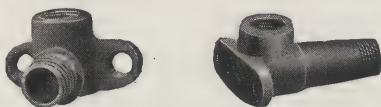
$1\frac{1}{2}$ , 2.....	B
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**SIDE OUTLET ELBOWS**

$\frac{3}{8}$ $\frac{1}{2}$ , $\frac{3}{4}$ , 1, $1\frac{1}{4}$ , $1\frac{1}{2}$ , 2.....	B
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**DROP ELBOWS**

$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ .....	B
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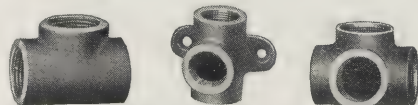


**DROP ELBOWS  
MALE AND FEMALE**

$\frac{3}{8}$ .....	B
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**LONG DROP ELBOWS**

$\frac{3}{8}$ , $\frac{1}{2}$ .....	B
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**TEES**

$\frac{1}{8}$ , $\frac{1}{4}$ x $\frac{1}{8}$ , $\frac{3}{8}$ x $\frac{1}{8}$ .....	A
$\frac{1}{4}$ x $\frac{3}{8}$ , $\frac{1}{4}$ , $\frac{3}{8}$ to $\frac{3}{4}$ x $\frac{1}{2}$ , $1$ x $\frac{3}{8}$ x $1$ to $1$ x $\frac{3}{4}$ x $\frac{1}{2}$ , $1$ x $\frac{1}{4}$ to $1$ x $\frac{1}{2}$ , $1\frac{1}{4}$ x $\frac{3}{8}$ , $1\frac{1}{4}$ x $\frac{1}{2}$ , $1\frac{1}{2}$ x $\frac{3}{8}$ , $1\frac{1}{2}$ x $\frac{1}{2}$ .....	B
$\frac{3}{4}$ , $\frac{3}{4}$ x $1$ , $1$ x $\frac{3}{4}$ x $\frac{3}{4}$ , $1$ x $\frac{3}{4}$ x $1$ , $1$ x $\frac{3}{4}$ to $1\frac{1}{4}$ x $1$ x $1\frac{1}{4}$ , $1\frac{1}{4}$ x $\frac{3}{4}$ to $1\frac{1}{2}$ x $1\frac{1}{4}$ x- $1\frac{1}{2}$ , $1\frac{1}{2}$ x $\frac{3}{4}$ and larger.....	C

**DROP TEES**

$\frac{3}{8}$ , $\frac{1}{2}$ x $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ x $\frac{1}{2}$ , $\frac{3}{4}$ .....	B
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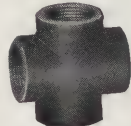
**DROP TEES**

**MALE AND FEMALE**

$\frac{3}{8}$ .....	B
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**FOUR-WAY TEES**

$\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1, $1\frac{1}{4}$ , $1\frac{1}{2}$ , 2.....	B
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**CROSSES**

$\frac{1}{4}$ to 1.....	B
$1\frac{1}{4}$ " 2.....	C
Straight and reducing.	



**CAPS**

Size, Inches	Class
$\frac{1}{8}$ ...A; $\frac{1}{4}$ to 1...B; $1\frac{1}{4}$ to 2...C	

**REDUCERS**

$\frac{1}{4}$ x $\frac{1}{8}$ , $\frac{3}{8}$ x $\frac{1}{8}$ .....	A
$\frac{3}{8}$ x $\frac{1}{4}$ , $\frac{1}{2}$ x $\frac{3}{8}$ to $1\frac{1}{4}$ x $\frac{1}{2}$ , $1\frac{1}{2}$ x $\frac{1}{2}$ .....	B
$1\frac{1}{4}$ x $\frac{3}{4}$ , $1\frac{1}{4}$ x $1$ , $1\frac{1}{2}$ x $\frac{3}{4}$ to $2$ x $1\frac{1}{2}$ .....	C

**LOCKNUTS**

$\frac{1}{8}$ ...A; $\frac{1}{4}$ to $1\frac{1}{4}$ ...B; $1\frac{1}{2}$ to 4...C	
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**COUPLINGS—RIGHT HAND**

$\frac{1}{8}$ ...A; $\frac{1}{4}$ to $\frac{3}{4}$ ...B; 1 to 2...C	
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**WASTE NUTS**

$\frac{1}{4}$ to 2.....	B
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**WALL PLATES**

$\frac{3}{8}$ , $\frac{1}{2}$ .....	B
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**EXTENSION PIECES**

$\frac{3}{8}$ to 2.....	B
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**CHANDELIER HOOKS**

$\frac{3}{8}$ , $\frac{1}{2}$ , Male or Female.....	B
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**CHANDELIER LOOPS**

$\frac{3}{8}$ , $\frac{1}{2}$ , Male; $\frac{3}{8}$ , Female.....	B
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**BRANCHES**

2, 2x $1\frac{1}{2}$ , 2x $1\frac{1}{2}$ x2, 2x $1\frac{1}{2}$ x $1\frac{1}{2}$ .....	B
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**RETURN BENDS**

$\frac{3}{8}$ , A; $\frac{1}{2}$ to 1, B; $1\frac{1}{4}$ to 2.....	C
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PRICE, PER POUND

Class	Black	Galv.
A	.46	.58
B	.23	.33
C	.15	.23

All fittings other than standard take 25 per cent extra charge to the above list in their respective classes.

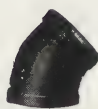


# STANDARD MALLEABLE IRON FITTINGS

## CLASSIFICATION AND PRICE LIST

EFFECTIVE SEPTEMBER 15, 1919

### BEADED OR BANDED



### ELBOWS

Size, Inches

Class

$\frac{1}{8}$ .....	A
$\frac{1}{4}$ to $\frac{3}{4}$ x $\frac{1}{2}$ , 1x $\frac{3}{8}$ , 1x $\frac{1}{2}$ , 1 $\frac{1}{4}$ x $\frac{1}{2}$ .....	B
$\frac{3}{4}$ , 1, 1x $\frac{3}{4}$ , 1 $\frac{1}{4}$ x $\frac{3}{4}$ , and Larger.....	C

### RIGHT AND LEFT ELBOWS

$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ .....	A
$\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2.....	B

### 45° ELBOWS

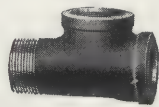
$\frac{1}{8}$ .....	A
$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2.....	B
2 $\frac{1}{2}$ , 3, 3 $\frac{1}{2}$ , 4, 4 $\frac{1}{2}$ , 5, 6.....	C

### 90° STREET ELBOWS

$\frac{1}{8}$ .....	A
$\frac{1}{4}$ to $\frac{1}{2}$ , $\frac{3}{4}$ x $\frac{1}{2}$ , $\frac{3}{4}$ , 1x $\frac{3}{4}$ .....	B
1, 1 $\frac{1}{4}$ x1 and Larger.....	C

### 45° STREET ELBOWS

$\frac{3}{8}$ .....	A
$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2.....	B



### TEES

$\frac{1}{8}$ .....	A
$\frac{1}{4}$ x $\frac{3}{8}$ to $\frac{3}{4}$ x $\frac{1}{2}$ , 1x $\frac{3}{8}$ x1 to 1x $\frac{3}{4}$ x $\frac{1}{2}$ , 1x $\frac{1}{4}$ to 1x $\frac{1}{2}$ , 1 $\frac{1}{4}$ x $\frac{3}{8}$ x1 $\frac{1}{4}$ , 1 $\frac{1}{4}$ x- $\frac{1}{2}$ x1 $\frac{1}{4}$ , 1 $\frac{1}{4}$ x1x $\frac{1}{2}$ , 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x1 $\frac{1}{2}$ , 1 $\frac{1}{2}$ x $\frac{1}{2}$ , 2x $\frac{3}{8}$ , 2x $\frac{1}{2}$ .....	B
$\frac{3}{4}$ x1, $\frac{3}{4}$ , 1x $\frac{3}{4}$ x $\frac{3}{4}$ , 1x $\frac{3}{4}$ x1, 1x $\frac{3}{4}$ , 1x1 $\frac{1}{4}$ , 1x1 $\frac{1}{2}$ , 1, 1 $\frac{1}{4}$ x $\frac{3}{4}$ x $\frac{3}{4}$ , 1 $\frac{1}{4}$ x $\frac{3}{4}$ x1, 1 $\frac{1}{4}$ x $\frac{3}{4}$ x1 $\frac{1}{4}$ , 1 $\frac{1}{4}$ x1x $\frac{3}{4}$ , 1 $\frac{1}{4}$ x1x1, 1 $\frac{1}{4}$ x1x1 $\frac{1}{4}$ , 1 $\frac{1}{4}$ x $\frac{3}{4}$ to 1 $\frac{1}{4}$ x2, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ x $\frac{3}{4}$ x $\frac{3}{4}$ to 1 $\frac{1}{2}$ x- 1 $\frac{1}{4}$ x1 $\frac{1}{2}$ , 1 $\frac{1}{2}$ x $\frac{3}{4}$ to 2x1 $\frac{1}{2}$ x2, 2x $\frac{3}{4}$ to 6.....	C

### SERVICE TEES

$\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1x $\frac{3}{4}$ .....	B
1, 1 $\frac{1}{4}$ x $\frac{3}{4}$ x1 $\frac{1}{4}$ , 1 $\frac{1}{4}$ x1x1 $\frac{1}{4}$ , 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ x1 $\frac{1}{4}$ x $\frac{1}{2}$ , 1 $\frac{1}{2}$ , 2x1 $\frac{1}{2}$ x2, 2... }	C

### CROSSES

Size, Inches

Class

$\frac{1}{4}$ to 1, 1 $\frac{1}{4}$ x $\frac{1}{2}$ .....	B
1 $\frac{1}{4}$ x $\frac{3}{4}$ to 6.....	C

### CAPS

1 $\frac{1}{4}$ to 6.....	C
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### REDUCERS

$\frac{3}{8}$ x $\frac{1}{4}$ to 1 $\frac{1}{4}$ x $\frac{1}{2}$ , 1 $\frac{1}{2}$ x $\frac{1}{2}$ , 2x $\frac{3}{8}$ , 2x $\frac{1}{2}$ , 1 $\frac{1}{4}$ x $\frac{3}{4}$ , 1 $\frac{1}{4}$ x1, 1 $\frac{1}{2}$ x $\frac{3}{4}$ , 1 $\frac{1}{2}$ x1, 1 $\frac{1}{2}$ x- 1 $\frac{1}{4}$ , 2x $\frac{3}{4}$ to 4x3 $\frac{1}{2}$ .....	B
	C

### Y BENDS

$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2, 2 $\frac{1}{2}$ , 3, 4.....	B
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### COUPLINGS—RIGHT HAND

1 $\frac{1}{4}$ to 4.....	C
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### COUPLINGS—RIGHT AND LEFT

$\frac{1}{4}$ to $\frac{3}{4}$ .....	B
1 " 2.....	C



### RETURN BENDS

#### MEDIUM PATTERN

$\frac{1}{2}$ , $\frac{3}{4}$ , 1.....	B
1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2.....	C

#### OPEN PATTERN

$\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1.....	B
1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2, 2 $\frac{1}{2}$ , 3.....	C

Class	PRICE, PER POUND	
	Black	Galv.
A	.46	.58
B	.20	.28
C	.13	.20

All fittings other than standard take 25 per cent extra charge to the above list in their respective classes.

## MALLEABLE IRON FITTINGS

### LIST OF SIZES

#### REVISED CLASSIFICATION

Adopted June 5, 1907

#### ELBOWS

$\frac{1}{8}$	A	$\frac{1}{2} \times \frac{1}{4}$	B	$1 \times \frac{1}{2}$	B	$\frac{1}{2} \times \frac{3}{4}$	C	2	C	$\frac{3}{2} \times \frac{3}{8}$	C	6	C
$\frac{1}{4} \times \frac{1}{8}$	A	$\frac{1}{2} \times \frac{3}{8}$	B	$1 \times \frac{3}{4}$	C	$\frac{1}{2} \times 1$	C	$2 \frac{1}{2} \times 1 \frac{1}{2}$	C	$\frac{3}{2}$	C	....	..
$\frac{1}{4}$	B	$\frac{1}{2}$	B	1	C	$\frac{1}{2} \times 1 \frac{1}{4}$	C	$2 \frac{1}{2} \times 2$	C	$\frac{4}{3}$	C	....	..
$\frac{3}{8} \times \frac{1}{8}$	A	$\frac{3}{4} \times \frac{3}{8}$	B	$1 \frac{1}{4} \times \frac{1}{2}$	B	$\frac{1}{2}$	C	$2 \frac{1}{2}$	C	$4 \times \frac{3}{2}$	C	....	..
$\frac{3}{8} \times \frac{1}{4}$	B	$\frac{3}{4} \times \frac{1}{2}$	B	$1 \frac{1}{4} \times \frac{3}{4}$	C	$2 \times 1$	C	$3 \times 2$	C	4	C	....	..
$\frac{3}{8}$	B	$\frac{3}{4}$	C	$1 \frac{1}{4} \times 1$	C	$2 \times 1 \frac{1}{4}$	C	$3 \times 2 \frac{1}{2}$	C	$4 \frac{1}{2}$	C	....	..
$\frac{1}{2} \times \frac{1}{8}$	A	$1 \times \frac{3}{8}$	B	$1 \frac{1}{4}$	C	$2 \times 1 \frac{1}{2}$	C	3	C	5	C	....	..

#### 45° ELBOWS

$\frac{1}{4}$	B	$\frac{1}{2}$	B	1	B	$1 \frac{1}{2}$	B	$2 \frac{1}{2}$	C	$3 \frac{1}{2}$	C	$4 \frac{1}{2}$	C	6	C
$\frac{3}{8}$	B	$\frac{3}{4}$	B	$1 \frac{1}{4}$	B	2	B	3	C	4	C	5	C	..	..

#### RIGHT AND LEFT ELBOWS

$\frac{1}{4}$	A	$\frac{3}{8}$	A	$\frac{1}{2}$	B	$\frac{3}{4}$	B	1	B	$1 \frac{1}{4}$	C	$1 \frac{1}{2}$	C	2	C
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#### STREET ELBOWS

$\frac{1}{8}$	A	$\frac{3}{4} \times \frac{1}{2}$	B	1	C	$\frac{1}{2} \times 1 \frac{1}{4}$	C	2	C	$3 \times 2 \frac{1}{2}$	C		
$\frac{1}{4}$	B	$\frac{3}{4}$	B	$1 \frac{1}{4} \times \frac{3}{4}$	C	$\frac{1}{2}$	C	$2 \frac{1}{2}$	C	4	C		
$\frac{3}{8}$	B	$1 \times \frac{1}{2}$	B	$1 \frac{1}{4} \times 1$	C	$2 \times 1 \frac{1}{4}$	C	$2 \frac{1}{2} \times 2$	C	$4 \times 2$	C		
$\frac{1}{2}$	B	$1 \times \frac{3}{4}$	B	$1 \frac{1}{4}$	C	$2 \times 1 \frac{1}{2}$	C	$\frac{3}{2}$	C	.....	..		

#### 45° STREET ELBOWS

$\frac{3}{8}$	A	$\frac{1}{2}$	B	$\frac{3}{4}$	B	1	B	$1 \frac{1}{4}$	B	$1 \frac{1}{2}$	B	2	B	3	B	4	B
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#### 60° ELBOWS

$1 \frac{1}{4}$	B	$1 \frac{1}{2}$	B	2	B
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#### SIDE OUTLET ELBOWS

$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$	B	1 x1 x1	B	$1 \frac{1}{4} \times 1 \frac{1}{4} \times 1 \frac{1}{4}$	B	$2 \times 2 \times 2$	B
$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	B	$1 \times 1 \times \frac{3}{4}$	B	$1 \frac{1}{4} \times 1 \frac{1}{4} \times 1$	B	$1 \frac{1}{2} \times 1 \frac{1}{2} \times 1 \frac{1}{2}$	B	.....	..

#### DROP ELBOWS—FEMALE

$\frac{1}{4} \times \frac{1}{4}$	B	$\frac{3}{8} \times \frac{1}{4}$	B	$\frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{1}{2}$	B	$\frac{3}{4} \times \frac{1}{2}$	B	$\frac{3}{4} \times \frac{3}{4}$	B
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#### DROP ELBOWS—MALE AND FEMALE

$\frac{1}{4} \times \frac{3}{8}$	B	$\frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{1}{2}$	B
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#### LONG DROP ELBOWS

$\frac{1}{4} \times \frac{3}{8}$	B	$\frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{1}{2}$	B
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#### DROP TEES—FEMALE

$\frac{3}{8} \times \frac{3}{8} \times \frac{1}{4}$	B	$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	B	$1 \times 1 \times \frac{3}{8}$	B
$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4}$	B	.....	..

#### DROP TEES—MALE AND FEMALE

$\frac{1}{4} \times \frac{1}{4} \times \frac{3}{8}$	B	$\frac{3}{8} \times \frac{1}{4} \times \frac{3}{8}$	B	$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{3}{8} \times \frac{3}{8}$	B	$\frac{1}{2} \times \frac{1}{2} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{1}{2} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{8}$	B	$1 \times 1 \times \frac{3}{8}$	B
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#### LONG DROP TEES

$\frac{3}{8} \times \frac{3}{8} \times \frac{3}{8}$	B	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	B	$1 \times 1 \times \frac{1}{2}$	B	$1 \frac{1}{4} \times 1 \frac{1}{4} \times \frac{1}{2}$	B
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#### FOUR-WAY TEES

$\frac{3}{8}$	B	$\frac{1}{2}$	B	$\frac{3}{4}$	B	1	B	$1 \frac{1}{4}$	B	$1 \frac{1}{2}$	B	2	B
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# MALLEABLE IRON FITTINGS

## LIST OF SIZES

### REVISED CLASSIFICATION

Adopted June 5, 1907

### TEES—STRAIGHT AND REDUCING

$\frac{1}{8}x\frac{1}{8}x\frac{1}{8}$	A	$\frac{1}{2}x\frac{1}{2}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{1}{4}x\frac{1}{4}$	C	2 x $\frac{3}{4}x2$	C	3 x3 x1	C
$\frac{1}{8}x\frac{1}{8}x\frac{1}{4}$	A	$\frac{3}{4}x\frac{3}{4}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{1}{4}x\frac{1}{4}$	B	2 x1 x2	C	3 x3 x1 $\frac{1}{4}$	C
$\frac{1}{4}x\frac{1}{4}x\frac{1}{8}$	A	$\frac{3}{4}x\frac{1}{2}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{1}{4}x\frac{1}{2}$	B	2 x1 $\frac{1}{4}x\frac{1}{4}$	C	3 x3 x1 $\frac{1}{2}$	C
$\frac{1}{4}x\frac{1}{4}x\frac{1}{4}$	B	$\frac{3}{4}x\frac{3}{4}x\frac{1}{4}$	C	$\frac{1}{4}x\frac{1}{4}x\frac{3}{4}$	C	2 x1 $\frac{1}{4}x\frac{1}{2}$	C	3 x3 x2	C
$\frac{1}{4}x\frac{1}{4}x\frac{3}{8}$	B	1 x $\frac{3}{4}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{1}{4}x\frac{1}{4}$	C	2 x1 $\frac{1}{4}x2$	C	3 x3 x2 $\frac{1}{2}$	C
$\frac{3}{8}x\frac{1}{4}x\frac{1}{4}$	B	1 x $\frac{3}{4}x\frac{3}{4}$	B	$\frac{1}{4}x\frac{1}{4}x\frac{1}{4}$	C	2 x1 $\frac{1}{2}x1$	C	3 x3 x3	C
$\frac{3}{8}x\frac{1}{4}x\frac{3}{8}$	B	1 x $\frac{3}{4}x\frac{1}{2}$	B	1 x1 x1 $\frac{1}{2}$	C	2 x1 $\frac{1}{2}x\frac{1}{4}$	C	3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2 $\frac{1}{2}$	C
$\frac{3}{8}x\frac{1}{4}x\frac{1}{2}$	A	1 x $\frac{1}{2}x\frac{3}{8}$	B	$\frac{1}{4}x\frac{1}{4}x\frac{1}{2}$	C	2 x1 $\frac{1}{2}x\frac{1}{2}$	C	3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3	C
$\frac{3}{8}x\frac{1}{4}x\frac{3}{4}$	B	1 x $\frac{1}{2}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{1}{4}x\frac{1}{2}$	C	2 x1 $\frac{1}{2}x2$	C	3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x3 $\frac{1}{2}$	C
$\frac{3}{8}x\frac{3}{8}x\frac{1}{4}$	B	1 x $\frac{1}{2}x\frac{3}{4}$	B	$\frac{1}{2}x\frac{3}{8}x\frac{1}{2}$	B	2 x2 x $\frac{3}{8}$	B	4 x3 x4	C
$\frac{3}{8}x\frac{3}{8}x\frac{3}{8}$	B	1 x $\frac{1}{2}x\frac{1}{2}$	B	$\frac{1}{2}x\frac{1}{2}x\frac{1}{2}$	B	2 x2 x $\frac{1}{2}$	B	4 x3 x3	C
$\frac{3}{8}x\frac{3}{8}x\frac{1}{2}$	B	1 x $\frac{1}{2}x\frac{3}{4}$	B	$\frac{1}{2}x\frac{3}{4}x\frac{1}{2}$	G	2 x2 x $\frac{3}{4}$	C	4 x4 x1	C
$\frac{1}{2}x\frac{1}{4}x\frac{1}{2}$	B	1 x $\frac{3}{4}x\frac{1}{2}$	B	$\frac{1}{2}x\frac{3}{4}x\frac{1}{2}$	C	2 x2 x1	C	4 x4 x1 $\frac{1}{4}$	C
$\frac{1}{2}x\frac{1}{4}x\frac{3}{4}$	B	1 x $\frac{3}{4}x\frac{3}{4}$	C	$\frac{1}{2}x\frac{1}{2}x1$	C	2 x2 x1 $\frac{1}{4}$	C	4 x4 x1 $\frac{1}{2}$	C
$\frac{1}{2}x\frac{3}{8}x\frac{3}{8}$	B	1 x $\frac{3}{4}x1$	C	$\frac{1}{2}x1x\frac{1}{4}$	C	2 x2 x1 $\frac{1}{2}$	C	4 x4 x2	C
$\frac{1}{2}x\frac{3}{8}x\frac{1}{2}$	B	1 x1 x $\frac{1}{4}$	B	$\frac{1}{2}x1x\frac{1}{2}$	C	2 x2 x2	C	4 x4 x2 $\frac{1}{2}$	C
$\frac{1}{2}x\frac{3}{8}x\frac{3}{4}$	B	1 x1 x $\frac{3}{8}$	B	$\frac{1}{2}x1\frac{1}{4}x\frac{1}{2}$	B	2 x2 x2 $\frac{1}{2}$	C	4 x4 x3	C
$\frac{1}{2}x\frac{3}{8}x\frac{1}{4}$	B	1 x1 x $\frac{1}{2}$	B	$\frac{1}{2}x1\frac{1}{4}x\frac{3}{4}$	C	2 $\frac{1}{2}$ x2 x1 $\frac{1}{2}$	C	4 x4 x3 $\frac{1}{2}$	C
$\frac{1}{2}x\frac{3}{8}x\frac{3}{4}$	B	1 x1 x $\frac{3}{4}$	C	$\frac{1}{2}x1\frac{1}{4}x1$	C	2 $\frac{1}{2}$ x2 x2	C	4 x4 x4	C
$\frac{1}{2}x\frac{3}{8}x\frac{1}{2}$	B	1 x1 x1	C	$\frac{1}{2}x1\frac{1}{4}x\frac{1}{4}$	C	2 $\frac{1}{2}$ x1 $\frac{1}{2}$ x2 $\frac{1}{2}$	C	4 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{2}$	C
$\frac{1}{2}x\frac{3}{8}x\frac{3}{4}$	B	$\frac{3}{4}x\frac{3}{4}x\frac{1}{4}$	C	$\frac{1}{2}x1\frac{1}{4}x\frac{1}{2}$	C	2 $\frac{1}{2}$ x2 x2 $\frac{1}{2}$	C	5 x5 x2	C
$\frac{3}{4}x\frac{1}{4}x\frac{1}{4}$	B	1 x $\frac{3}{4}x\frac{1}{4}$	C	$\frac{1}{2}x1\frac{1}{2}x\frac{3}{8}$	B	2 $\frac{1}{2}$ x2 $\frac{1}{2}x\frac{3}{4}$	C	5 x5 x3	C
$\frac{3}{4}x\frac{1}{4}x\frac{3}{8}$	B	1 x1 x1 $\frac{1}{4}$	C	$\frac{1}{2}x1\frac{1}{2}x\frac{1}{2}$	B	2 $\frac{1}{2}$ x2 $\frac{1}{2}x1$	C	5 x5 x4	C
$\frac{3}{4}x\frac{1}{4}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{1}{2}x\frac{1}{4}$	B	$\frac{1}{2}x1\frac{1}{2}x\frac{3}{4}$	C	2 $\frac{1}{2}$ x2 $\frac{1}{2}x\frac{1}{4}$	C	5 x5 x5	C
$\frac{3}{4}x\frac{1}{4}x\frac{3}{4}$	B	$\frac{1}{4}x\frac{1}{2}x\frac{1}{2}$	B	$\frac{1}{2}x1\frac{1}{2}x1$	C	2 $\frac{1}{2}$ x2 $\frac{1}{2}x\frac{1}{2}$	C	6 x6 x2	C
$\frac{3}{4}x\frac{1}{2}x\frac{1}{4}$	B	$\frac{1}{4}x\frac{3}{4}x\frac{1}{4}$	B	$\frac{1}{2}x1\frac{1}{2}x\frac{1}{4}$	C	2 $\frac{1}{2}$ x2 $\frac{1}{2}x\frac{1}{2}$	C	6 x6 x2 $\frac{1}{2}$	C
$\frac{3}{4}x\frac{1}{2}x\frac{3}{8}$	B	$\frac{1}{4}x\frac{3}{4}x\frac{3}{4}$	C	$\frac{1}{2}x1\frac{1}{2}x\frac{1}{2}$	C	2 $\frac{1}{2}$ x2 $\frac{1}{2}x\frac{1}{2}$	C	6 x6 x3	C
$\frac{3}{4}x\frac{1}{2}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{3}{4}x1$	C	1 x1 x2	C	2 $\frac{1}{2}$ x2 $\frac{1}{2}x\frac{3}{4}$	C	6 x6 x4	C
$\frac{3}{4}x\frac{1}{2}x\frac{3}{4}$	B	$\frac{1}{4}x\frac{3}{4}x\frac{1}{4}$	B	$\frac{1}{4}x1\frac{1}{4}x2$	C	2 x2 x3	C	6 x6 x6	C
$\frac{3}{4}x\frac{3}{4}x\frac{1}{4}$	B	$\frac{1}{4}x1x\frac{3}{8}$	B	$\frac{1}{2}x1\frac{1}{4}x2$	C	3 x2 x3	C	.....	..
$\frac{3}{4}x\frac{3}{4}x\frac{3}{8}$	B	$\frac{1}{4}x1x\frac{1}{2}$	B	$\frac{1}{2}x1\frac{1}{2}x2$	C	3 x2 $\frac{1}{2}x2$	C	.....	..
$\frac{3}{4}x\frac{3}{4}x\frac{1}{2}$	B	$\frac{1}{4}x1x\frac{3}{4}$	C	2 x $\frac{3}{8}x2$	B	3 x2 $\frac{1}{2}x3$	C	.....	..
$\frac{3}{4}x\frac{3}{4}x\frac{3}{4}$	C	$\frac{1}{4}x1x1$	C	2 x $\frac{1}{2}x2$	B	3 x3 x $\frac{3}{4}$	C	.....	..

### SERVICE TEES

$\frac{3}{8}x\frac{3}{8}x\frac{3}{8}$	B	1 x $\frac{3}{4}x1$	B	$\frac{1}{4}x1x\frac{1}{4}$	C	$\frac{1}{2}x1\frac{1}{4}x\frac{1}{2}$	C	$\frac{1}{2}x2\frac{1}{2}x2\frac{1}{2}$	C
$\frac{1}{2}x\frac{1}{2}x\frac{1}{2}$	B	1 x1 x $\frac{3}{4}$	B	$\frac{1}{4}x1\frac{1}{4}x\frac{1}{4}$	C	$\frac{1}{2}x1\frac{1}{2}x\frac{1}{2}$	C	3 x2 $\frac{1}{2}x3$	C
$\frac{3}{4}x\frac{3}{4}x\frac{3}{4}$	B	1 x1 x1	C	$\frac{1}{4}x1x1$	C	2 x1 $\frac{1}{2}x2$	C	3 x3 x3	C
$\frac{3}{4}x\frac{1}{2}x\frac{3}{4}$	B	1 x1 x1 $\frac{1}{4}$	C	$\frac{1}{2}x\frac{3}{4}x\frac{1}{2}$	C	2 x2 x2	C	3 x3 x4	C
$\frac{3}{4}x\frac{3}{4}x1$	B	$\frac{1}{4}x\frac{3}{4}x\frac{1}{4}$	C	$\frac{1}{2}x1x\frac{1}{2}$	C	$\frac{1}{2}x2x2\frac{1}{2}$	C	.....	..

### REDUCERS

$\frac{1}{4}x\frac{1}{8}$	A	$\frac{3}{4}x\frac{3}{8}$	B	$\frac{1}{4}x\frac{1}{2}$	B	2 x $\frac{1}{2}$	B	$\frac{1}{2}x1\frac{1}{2}$	C	$\frac{3}{4}x2$	C	$\frac{1}{4}x2\frac{1}{2}$	C
$\frac{3}{8}x\frac{1}{8}$	A	$\frac{3}{4}x\frac{1}{2}$	B	$\frac{1}{4}x\frac{3}{4}$	C	2 x $\frac{3}{4}$	C	$\frac{1}{2}x2$	C	$\frac{3}{4}x2\frac{1}{2}$	C	$\frac{1}{4}x3$	C
$\frac{1}{2}x\frac{1}{8}$	A	1 x $\frac{1}{4}$	B	$\frac{1}{4}x1$	C	2 x1	C	3 x1	C	$\frac{3}{4}x3$	C	$\frac{1}{4}x3\frac{1}{2}$	C
$\frac{1}{2}x\frac{1}{4}$	B	1 x $\frac{3}{8}$	B	$\frac{1}{2}x\frac{1}{2}$	B	2 x1 $\frac{1}{4}$	C	3 x1 $\frac{1}{4}$	C	4 x1	C	.....	..
$\frac{1}{2}x\frac{3}{8}$	B	1 x $\frac{1}{2}$	B	$\frac{1}{2}x\frac{3}{4}$	C	2 x1 $\frac{1}{2}$	C	3 x1 $\frac{1}{2}$	C	4 x1 $\frac{1}{4}$	C	.....	..
$\frac{3}{4}x\frac{1}{8}$	B	1 x $\frac{3}{4}$	B	$\frac{1}{2}x1$	C	$\frac{1}{2}x1$	C	3 x2	C	4 x1 $\frac{1}{2}$	C	.....	..
$\frac{3}{4}x\frac{1}{4}$	B	$\frac{1}{4}x\frac{3}{8}$	B	$\frac{1}{2}x1\frac{1}{4}$	C	$\frac{1}{2}x1\frac{1}{4}$	C	3 x2 $\frac{1}{2}$	C	4 x2	C	.....	..



# MALLEABLE IRON FITTINGS

## LIST OF SIZES

### REVISED CLASSIFICATION

Adopted June 5, 1907

#### CROSSES

$\frac{1}{4}x\frac{1}{4}x\frac{1}{4}$	B	$\frac{3}{4}x\frac{3}{4}x\frac{1}{2}$	B	$\frac{1}{4}x1x1$	C	$\frac{1}{2}x1\frac{1}{2}x1\frac{1}{2}$	C	3 x3 x3	C
$\frac{3}{8}x\frac{3}{8}x\frac{1}{4}$	B	$\frac{3}{4}x\frac{3}{4}x\frac{3}{4}$	B	$\frac{1}{4}x1\frac{1}{4}x\frac{3}{8}$	B	2 x2 x $\frac{1}{2}$	B	$3\frac{1}{2}x3\frac{1}{2}x3\frac{1}{2}$	C
$\frac{3}{8}x\frac{3}{8}x\frac{3}{8}$	B	1 x $\frac{1}{2}x\frac{3}{8}$	B	$\frac{1}{4}x1\frac{1}{4}x\frac{1}{2}$	C	2 x2 x $\frac{3}{4}$	C	4 x4 x2	C
$\frac{1}{2}x\frac{3}{8}x\frac{3}{8}$	B	1 x $\frac{3}{4}x\frac{3}{8}$	B	$\frac{1}{4}x1\frac{1}{4}x\frac{3}{4}$	C	2 x2 x1	C	4 x4 x3	C
$\frac{1}{2}x1\frac{1}{2}x\frac{1}{4}$	B	1 x $\frac{3}{4}x\frac{1}{2}$	B	$\frac{1}{4}x1\frac{1}{4}x1$	C	2 x2 x1 $\frac{1}{4}$	C	4 x4 x4	C
$\frac{1}{2}x1\frac{1}{2}x\frac{3}{8}$	B	1 x $\frac{3}{4}x\frac{3}{4}$	B	$\frac{1}{4}x1\frac{1}{4}x1\frac{1}{4}$	C	2 x2 x1 $\frac{1}{2}$	C	5 x5 x5	C
$\frac{1}{2}x1\frac{1}{2}x\frac{1}{2}$	B	1 x1 x $\frac{3}{8}$	B	$\frac{1}{2}x1\frac{1}{4}x1\frac{1}{4}$	C	2 x2 x2	C	6 x6 x6	C
$\frac{3}{4}x\frac{3}{8}x\frac{1}{2}$	B	1 x1 x $\frac{1}{2}$	B	$\frac{1}{2}x1\frac{1}{2}x\frac{1}{2}$	B	$2\frac{1}{2}x2\frac{1}{2}x2$	C	.....	..
$\frac{3}{4}x1\frac{1}{2}x\frac{3}{8}$	B	1 x1 x $\frac{3}{4}$	B	$\frac{1}{2}x1\frac{1}{2}x\frac{3}{4}$	C	$2\frac{1}{2}x2\frac{1}{2}x2\frac{1}{2}$	C	.....	..
$\frac{3}{4}x1\frac{1}{2}x\frac{1}{2}$	B	1 x1 x1	B	$\frac{1}{2}x1\frac{1}{2}x1$	C	3 x3 x2	C	.....	..
$\frac{3}{4}x\frac{3}{4}x\frac{3}{8}$	B	$\frac{1}{4}x1x\frac{3}{4}$	C	$\frac{1}{2}x1\frac{1}{2}x1\frac{1}{4}$	C	3 x3 x2 $\frac{1}{2}$	C	.....	..

#### CAPS

$\frac{1}{4}$ B	$\frac{3}{8}$ B	$\frac{1}{2}$ B	$\frac{3}{4}$ B	1B	$1\frac{1}{4}$ C	$1\frac{1}{2}$ C	2C	$2\frac{1}{2}$ C	3C	$3\frac{1}{2}$ C	4C	5C	6C
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#### RETURN BENDS CLOSE AND MEDIUM PATTERNS—R. H.

$\frac{1}{2}$	B	$\frac{3}{4}$	B	1	B	$1\frac{1}{4}$	C	$1\frac{1}{2}$	C	2	C
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#### RETURN BENDS CLOSE AND MEDIUM PATTERNS—R. AND L.

$\frac{1}{2}$	A	$\frac{3}{4}$	B	1	B	$1\frac{1}{4}$	B	$1\frac{1}{2}$	B	2	B
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#### RETURN BENDS OPEN PATTERN—R. H.

$\frac{1}{2}$	B	$\frac{3}{4}$	B	1	B	$1\frac{1}{4}$	C	$1\frac{1}{2}$	C	2	C	$2\frac{1}{2}$	C	3	C
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#### RETURN BENDS OPEN PATTERN—R. AND L.

$\frac{1}{2}$	A	$\frac{3}{4}$	B	1	B	$1\frac{1}{4}$	B	$1\frac{1}{2}$	B	2	B	$2\frac{1}{2}$	B	3	B
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#### Y BENDS

$\frac{1}{2}x\frac{1}{2}x\frac{1}{2}$	B	$1\frac{1}{2}x1\frac{1}{4}x1\frac{1}{4}$	B	$2x1\frac{1}{4}x1\frac{1}{2}$	B	2 x2 x1 $\frac{1}{4}$	B	$3x3x2\frac{1}{2}$	B
$\frac{3}{4}x\frac{3}{4}x\frac{3}{4}$	B	$1\frac{1}{2}x1\frac{1}{4}x1\frac{1}{2}$	B	$2x1\frac{1}{4}x2$	B	2 x2 x1 $\frac{1}{2}$	B	$3x3x3$	B
1 x1 x1	B	$1\frac{1}{2}x1\frac{1}{2}x1\frac{1}{4}$	B	$2x1\frac{1}{2}x1\frac{1}{4}$	B	2 x2 x2	B	$4x4x4$	B
$1\frac{1}{4}x1\frac{1}{4}x1\frac{1}{4}$	B	$1\frac{1}{2}x1\frac{1}{2}x1\frac{1}{2}$	B	$2x1\frac{1}{2}x1\frac{1}{2}$	B	$2\frac{1}{2}x2\frac{1}{2}x2$	B	.....	..
$1\frac{1}{4}x1\frac{1}{4}x\frac{3}{4}$	B	2 x1 $\frac{1}{4}x1\frac{1}{4}$	B	$2x1\frac{1}{2}x2$	B	$2\frac{1}{2}x2\frac{1}{2}x2\frac{1}{2}$	B	.....	..

#### 60° Y BENDS

#### CROSS OVERS

#### CROSS OVER TEES

2	B	$2x2x1\frac{1}{2}$	B	$\frac{1}{2}$	B	$\frac{3}{4}$	B	1	B	$\frac{1}{2}$	B	$\frac{3}{4}$	B
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#### COUPLINGS R. AND L. AND R. H.

$\frac{1}{4}$	B	$\frac{3}{8}$ B	$\frac{1}{2}$ B	$\frac{3}{4}$ B	1C	$1\frac{1}{4}$ C	$1\frac{1}{2}$ C	2C	$2\frac{1}{2}$ C	3C
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#### OFFSETS

#### LOCKNUTS

$\frac{3}{4}$	B	1B	$1\frac{1}{4}$ B	$\frac{1}{4}$ B	$\frac{3}{8}$ B	$\frac{1}{2}$ B	$\frac{3}{4}$ B	1B	$1\frac{1}{4}$ B	$1\frac{1}{2}$ C	2C
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#### EXTENSION PIECES

#### WASTE NUTS

$\frac{3}{8}$	B	$\frac{1}{2}$ B	$\frac{3}{4}$ B	$\frac{1}{4}$ B	$\frac{3}{8}$ B	$\frac{1}{2}$ B	$\frac{3}{4}$ B	1B	$1\frac{1}{4}$ B	$1\frac{1}{2}$ B
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## CAST IRON AND MALLEABLE FITTINGS

### LIST OF SIZES

#### REDUCERS

##### STANDARD



##### ECCENTRIC



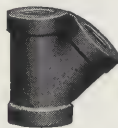
#### STANDARD REDUCERS

4½x4	5x2½	6x3	8x 6
5 x4½	5x2	6x2½	8x 4
5 x4	6x5	6x2	10x 8
5 x3½	6x4	7x6	10x 6
5 x3	6x3½	8x7	12x10

#### ECCENTRIC REDUCERS

1¼x¾	2½x2	4 x3	6x3
1¼x1	3 x1½	4 x3½	6x3½
1½x1	3 x2	4½x4	6x4
1½x1¼	3 x2½	5 x2	6x5
2 x¾	3½x1¼	5 x2½	7x6
2 x1	3½x2	5 x3	8x5
2 x1¼	3½x2½	5 x3½	8x6
2 x1½	3½x3	5 x4	8x7
2½x1¼	4 x2	5 x4½	...
2½x1½	4 x2½	6 x2½	...

#### Y BENDS



½ to 12 inches.

#### LOCKNUTS



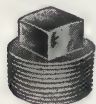
2½ to 12 inches.

#### CAPS



4 to 12 inches.

#### PLUGS



⅛ to 12 inches.

#### CAST IRON BUSHINGS



⅜x ⅛	3 x2	6x 4
1/2x 1/4	3 x2½	6x 4½
3/4x 1/4	3½x1	6x 5
3/4x 3/8	3½x1¼	7x 2
1 x 1/4	3½x1½	7x 2½
1 x 3/8	3½x2	7x 3
1 x 1/2	3½x2½	7x 3½
1¼x 1/4	3½x3	7x 4
1¼x 3/8	4 x1	7x 4½
1¼x 1/2	4 x1¼	7x 5
1¼x 3/4	4 x1½	7x 6
1½x 1/4	4 x2	8x 2
1½x 3/8	4 x2½	8x 2½
1½x 1/2	4 x3	8x 3
1½x 3/4	4 x3½	8x 4
2 x 1/4	4½x2	8x 5
2 x 3/8	4½x2½	8x 6
2 x 1/2	4½x3	8x 7
2 x 3/4	4½x3½	9x 6
2 x1	4½x4	9x 7
2 x1¼	5 x1	9x 8
2½x 1/2	5 x2	10x 4
2½x 3/4	5 x2½	10x 5
2½x1	5 x3	10x 6
2½x1¼	5 x3½	10x 7
2½x1½	5 x4	10x 8
3 x 1/2	5 x4½	10x 9
3 x 3/4	6 x1½	12x 6
3 x1	6 x2	12x 8
3 x1¼	6 x2½	12x10
3 x1½	6 x3	.....
	6 x3½	.....

#### MALLEABLE BUSHINGS

1/4x ⅛	¾x ½	1½x1¼
3/8x 1/4	1 x ¾	2 x1½
1/2x 3/8	1¼x1	2½x2

#### FACED BUSHINGS

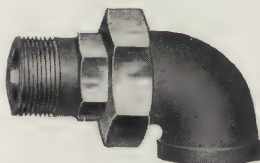
3/8x 1/4	2 x1½	4½x 4
1/2x 3/8	2½x1¼	*5 x 3
3/4x 3/8	2½x1½	5 x 4
3/4x 1/2	2½x2	5 x 4½
1 x 1/2	3 x1½	6 x 3
1 x 3/4	3 x2	*6 x 4
1¼x 3/4	3 x2½	*6 x 5
1¼x1	3½x2	7 x 5
1½x 3/4	3½x2½	7 x 6
1½x1	3½x3	8 x 6
1½x1¼	*4 x2	8 x 7
2 x 3/4	4 x2½	10 x 8
2 x1	4 x3	10 x10
2 x1¼	4 x3½	.....

\*Cast iron. All other sizes made in malleable iron.

## MALLEABLE IRON FITTINGS

### UNION ELBOWS

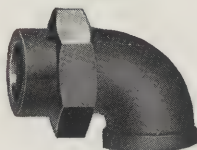
#### MALE



J-4730

Size Inches	PRICE, Black	EACH Galv.	Size Inches	PRICE, Black	EACH Galv.
1/4	.43	.65	1 1/4	1.05	1.60
3/8	.45	.70	1 1/2	1.20	1.80
1/2	.48	.72	2	1.80	2.70
3/4	.62	.93	2 1/2	3.30	4.95
1	.72	1.08	...	...	...

#### FEMALE

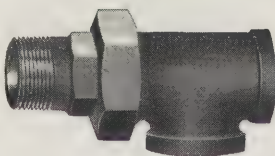


J-4732

Size Inches	PRICE, Black	EACH Galv.	Size Inches	PRICE, Black	EACH Galv.
1/4	.38	.57	1 1/4	.90	1.35
3/8	.40	.60	1 1/2	1.05	1.58
1/2	.42	.63	2	1.55	2.35
3/4	.54	.81	2 1/2	2.85	4.30
1	.63	.95	...	...	...

### UNION TEES

#### MALE



J-4734

Size Inches	PRICE, EACH			
	MALE		FEMALE	
	Black	Galv.	Black	Galv.
1/4	.48	.72	.40	.60
3/8	.50	.75	.43	.65
1/2	.52	.78	.45	.68
3/4	.65	1.00	.57	.86
1	.80	1.20	.70	1.05
1 1/4	1.10	1.65	.95	1.45
1 1/2	1.30	1.95	1.15	1.75
2	1.95	2.95	1.70	2.55
2 1/2	3.70	5.55	3.20	4.80

### BOILER ELBOWS

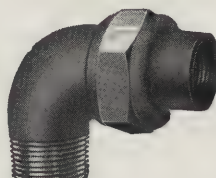
#### OLD PATTERN

#### PLAIN



J-4736

#### WITH UNION



J-4738

#### NEW PATTERN—WITH UNION



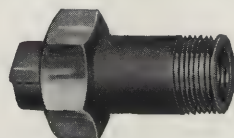
J-4740

Size Female, Male Inches	PRICE, EACH Plain Galv.	With Union Galv.
3/4x3/4x1	.40	.75
3/4x1/2x1	.40	.75
1/2x1/2x1	.40	.60

In ordering, always specify whether old pattern or new pattern is wanted. Unless otherwise specified, old pattern union elbows will be furnished.

### BOILER COUPLINGS

#### WITH UNION



J-4742

Size Female, Male Inches	PRICE, EACH Plain Galv.	With Union Galv.
3/4x3/4x1	.40	.75
3/4x1/2x1	.40	.75
1/2x1/2x1	.40	.60

### LONG BOILER UNION TEES

For bottom connection of range boiler. Galvanized.

Size Inches	PRICE, EACH With Union	Without Union
3/4x1/2x1	.80	.50

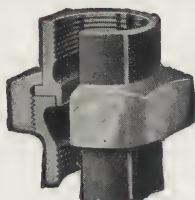


J-4744

## UNIONS

### STANDARD MALLEABLE IRON UNIONS

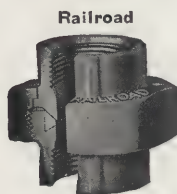
For 150 Pounds Steam Working Pressure



J-4746

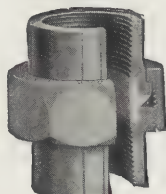
Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
1/8	.18	.27	1 1/2	.58	.90
1/4	.18	.27	2	.75	1.15
3/8	.20	.30	2 1/2	1.55	2.35
1/2	.22	.33	3	2.10	3.15
3/4	.27	.40	3 1/2	3.65	5.50
1	.33	.50	4	4.35	6.50
1 1/4	.46	.70	...	...	...

### RAILROAD AND ROCKWOOD UNIONS



J-4748

#### Rockwood Pressed Steel



J-4750

### RAILROAD UNIONS

For 250 Pounds Steam Working Pressure

Brass to iron seat.

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
1/8	.30	.45	1 1/4	1.20	1.80
1/4	.30	.45	1 1/2	1.60	2.40
3/8	.40	.60	2	2.00	3.00
1/2	.50	.75	2 1/2	3.20	4.80
3/4	.60	.90	3	4.80	7.20
1	.80	1.20	...	...	...

### ROCKWOOD PRESSED STEEL UNIONS

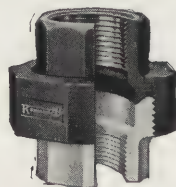
For 300 Pounds Steam Working Pressure

Sherardized, ground bronze seats. Tested to 1000 pounds.

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1/8	.30	3/4	.60	2	2.00
1/4	.30	1	.80	2 1/2	3.20
3/8	.40	1 1/4	1.20	3	4.80
1/2	.50	1 1/2	1.60	...	...

### KEWANEE OCTAGON UNIONS

2-inch and Smaller, 250 Pounds; 2 1/2-inch  
and Larger, 200 Pounds Working Pressure



J-4752

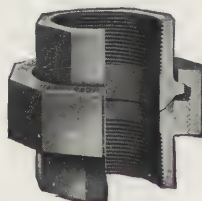
Has patented combination bronze to steel ground ball-joint, with non-corrosive thread connection. Each union tested with extreme compressed air pressure under water. No gasket required.

One end is forged steel and the other forged manganese bronze.

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
1/8	.30	.45	1 1/2	1.60	2.40
1/4	.30	.45	2	2.00	3.00
3/8	.40	.60	2 1/2	3.20	4.80
1/2	.50	.75	3	4.80	7.20
3/4	.60	.90	3 1/2	6.50	9.75
1	.80	1.20	4	10.00	15.00
1 1/4	1.20	1.80	...	...	...

### JEFFERSON UNIONS

For 250 Pounds Steam Working Pressure



J-4754

Bronze to iron seat with ground ball joint.

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Black	Galv.		Black	Galv.
1/8	.30	.45	1 1/2	1.60	2.40
1/4	.30	.45	2	2.00	3.00
3/8	.40	.60	2 1/2	3.20	4.80
1/2	.50	.75	3	4.80	7.20
3/4	.60	.90	3 1/2	8.00	12.00
1	.80	1.20	4	10.00	15.00
1 1/4	1.20	1.80	...	...	...

## ADJUSTABLE RAILING FITTINGS

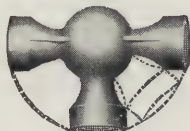
### MALLEABLE IRON AND BRASS

ELBOW



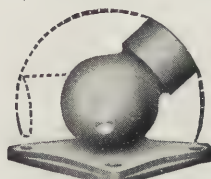
J-4756

TEE



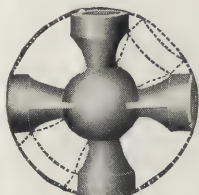
J-4758

FLANGE



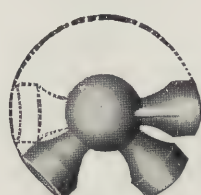
J-4760

CROSS



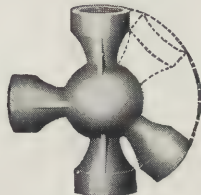
J-4762

STAIR TEE



J-4764

STAIR CROSS



J-4766

By means of these fittings almost any angle may be obtained in railings for stairs and other places requiring deviation from horizontal or perpendicular lines, which would otherwise require special patterns to attain the same results.

#### MALLEABLE IRON

Size.....inches	1	1¼	1½	2
Price, Elbows.....each	1.10	1.25	1.70	2.25
“ Tees.....“	1.30	1.50	2.00	2.50
“ Flanges.....“	1.65	1.75	1.90	2.50
“ Crosses.....“	1.50	1.75	2.35	2.75
“ Stair Tees.....“	1.30	1.60	2.15	2.50
“ “ Crosses.....“	1.50	1.85	2.50	2.75

Add 50 per cent for galvanized.

Furnished tapped right hand, add 15 per cent net when ordered otherwise.

#### FINISHED BRASS

Size.....inches	1	1¼	1½	2
Price, Elbows.....each	2.75	3.15	4.25	5.65
“ Tees.....“	3.25	3.75	5.00	6.25
“ Crosses.....“	3.75	4.40	5.90	6.90
“ Stair Tees.....“	3.25	4.00	5.40	6.25
“ “ Crosses.....“	3.75	4.65	6.25	6.90

Right and left and left-hand fittings, 25 per cent extra.



## RAILING FITTINGS

### MALLEABLE IRON

**No. 1  
Elbow**



**J-4768**

**No. 2  
Side Outlet Elbow**



**J-4770**

**No. 3  
Tee**



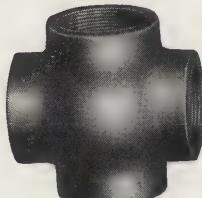
**J-4772**

**No. 4  
Side Outlet Tee**



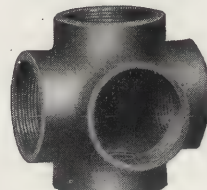
**J-4774**

**No. 5  
Cross**



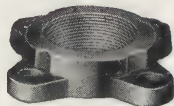
**J-4776**

**No. 6  
Side Outlet Cross**



**J-4778**

**No. 7  
Flange**



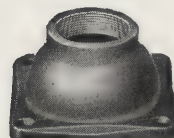
**J-4780**

**No. 9  
Acorn**



**J-4782**

**No. 8  
Floor Flange**



**J-4784**

Size.....inches	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Price, No. 1, Elbows.....each	.15	.18	.20	.35	.45	.72	1.00	1.50
" " 2, Side Outlet Elbows....."	.20	.23	.25	.40	.50	.80	1.15	1.70
" " 3, Tees....."	.20	.23	.25	.40	.50	.75	1.20	1.90
" " 4, Side Outlet Tees....."	.30	.33	.35	.45	.55	.90	1.40	2.15
" " 5, Crosses....."	.30	.33	.35	.45	.58	1.00	1.50	2.25
" " 6, Side Outlet Crosses....."	.35	.38	.40	.50	.65	1.35	1.75	2.60
" " 7, Flanges....."	.14	.15	.15	.20	.28	.30	.50	.75
" " 9, Acorns....."	.16	.18	.20	.25	.35	.90	1.00	1.50
" " 8, Floor Flanges....."	.16	.18	.20	.40	.50	.90	.....	.....

In ordering railing fittings, describe kind wanted by number and size. Railing fittings will always be furnished with all openings tapped right-hand unless otherwise specified. Railing fittings tapped right and left or left-hand will be charged for at 15 per cent additional, net. For galvanized railing fittings, add 50 per cent to above list.

## RAILING FITTINGS

### FINISHED BRASS

**No. 1  
Elbow**



**J-4785**

**No. 2  
Side Outlet Elbow**



**J-4788**

**No. 3  
Tee**



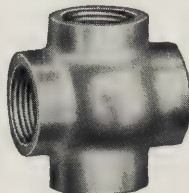
**J-4790**

**No. 4  
Side Outlet Tee**



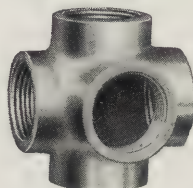
**J-4792**

**No. 5  
Cross**



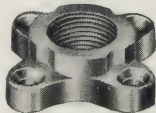
**J-4794**

**No. 6  
Side Outlet Cross**



**J-4796**

**No. 7  
Flange**



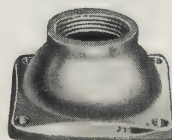
**J-4798**

**No. 9  
Acorn**



**J-4800**

**No. 8  
Floor Flange**



**J-4802**

Size.....inches	1/2	3/4	1	1 1/4	1 1/2	2
Price, No. 1, Elbows.....each	.40	.60	.80	1.20	1.60	2.50
" " 2, Side Outlet Elbows....."	.75	1.00	1.10	1.70	2.00	3.00
" " 3, Tees....."	.60	.85	1.10	1.70	2.00	3.00
" " 4, Side Outlet Tees....."	1.05	1.25	1.50	2.00	2.40	3.50
" " 5, Crosses....."	1.05	1.25	1.50	2.00	2.40	3.50
" " 6, Side Outlet Crosses....."	1.20	1.45	1.70	2.25	3.00	4.00
" " 7, Flanges....."	.26	.35	.40	.70	.95	1.30
" " 8, Floor Flanges....."	.60	.90	1.00	1.35	1.75	2.50
" " 9, *Acorns....."	.60	.90	1.00	1.35	1.75	2.50

\*Male or female.

In ordering railing fittings, describe kind wanted by number and size. Railing fittings will always be furnished with all openings tapped right-hand, unless otherwise specified. Railing fittings tapped right and left or left-hand will be charged for at 15 per cent additional, net. Reducing fittings furnished promptly from factory.

## NIPPLES

CLOSE NIPPLE



J-4814

SHOULDER NIPPLE



J-4816

## BLACK RIGHT-HAND NIPPLES

LENGTH, INCHES						Size Inches	Price, Each		PRICE, EXTRA LONG NIPPLES, EACH										
Close	Short	LONG					Close or Short	Long	LENGTH, INCHES										
		4	5	6	7				8	9	10	11	12						
¾	1½	2	2½	3	3½	⅛	.04	.06	.07	.08	.10	.12	.14	.15	.17	.18	.19		
⅞	1½	2	2½	3	3½	¼	.04	.06	.07	.08	.10	.12	.14	.15	.17	.18	.19		
1	1½	2	2½	3	3½	⅜	.04	.06	.07	.08	.10	.12	.14	.15	.17	.18	.19		
1⅛	1½	2	2½	3	3½	½	.05	.07	.08	.10	.12	.14	.16	.18	.20	.22	.23		
1⅜	2	2½	3	3½	4	¾	.06	.09	...	.11	.13	.17	.18	.20	.22	.24	.26		
1½	2	2½	3	3½	4	1	.08	.13	...	.15	.18	.23	.25	.28	.31	.34	.36		
1⅝	2½	3	3½	4	4½	1¼	.11	.17	...	.20	.24	.29	.33	.36	.40	.44	.47		
1¾	2½	3	3½	4	4½	1½	.13	.20	...	.25	.29	.36	.40	.45	.50	.54	.59		
2	2½	3	3½	4	4½	2	.18	.27	...	.32	.38	.50	.54	.59	.65	.72	.77		
2½	3	3½	4	4½	5	2½	.39	.59	...	.68	.90	.97	1.06	1.17	1.26	1.35			
2⅝	3	3½	4	4½	5	3	.48	.72	...	.85	1.08	1.20	1.33	1.45	1.58	1.70			
2¾	4	4½	5	5½	6	3½	.75	1.05	...	1.30	1.45	1.60	1.75	1.90	2.05				
2⅞	4	4½	5	5½	6	4	.85	1.20	...	1.52	1.69	1.87	2.05	2.22	2.40				
2⅞	4	4½	5	5½	6	4½	1.25	1.70	...	2.25	2.50	2.75	2.95	3.17	3.40				
3	4½	5	5½	6	6½	5	1.55	2.45	...	2.58	2.83	3.10	3.35	3.60	3.85				
3⅛	4½	5	5½	6	6½	6	1.85	2.90	...	3.05	3.35	3.70	4.00	4.30	4.65				
3¼	5	...	...	...	...	7	3.20	...	...	3.60	4.05	4.45	4.90	5.30	5.75	6.15			
3½	5	...	...	...	...	8	3.55	...	...	4.05	4.55	5.05	5.50	6.00	6.50	7.00			
3⅝	5	...	...	...	...	9	5.25	...	...	...	...	6.50	7.10	7.75	8.40	9.00			
3⅞	5	...	...	...	...	10	6.75	...	...	...	...	8.25	8.90	9.70	10.40	11.15			
4½	5	...	...	...	...	12	8.00	...	...	...	...	10.00	10.80	11.75	12.70	13.65			

Nipples made to order from extra heavy pipe at double above list. Nipples larger than 12 inches made to order and charged as cut pipe. Threads extra.



## NIPPLES

### PLAIN RIGHT AND LEFT-HAND NIPPLES

LENGTH, INCHES						Size, Inches	PRICE, EA.		PRICE, EXTRA LONG NIPPLES, EACH									
*Close	*Short	Long					Close or Short	Long	LENGTH, INCHES									
									4	5	6	7	8	9	10	11	12	
3/4	1 1/2	2	2 1/2	3	3 1/2	1/8	.05	.08	.09	.11	.13	.16	.18	.20	.23	.25	.27	
7/8	1 1/2	2	2 1/2	3	3 1/2	1/4	.05	.08	.09	.11	.13	.16	.18	.20	.23	.25	.27	
1	1 1/2	2	2 1/2	3	3 1/2	3/8	.05	.08	.09	.11	.13	.16	.18	.20	.23	.25	.27	
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1/2	.07	.10	.11	.13	.16	.18	.21	.24	.27	.29	.31	
1 3/8	2	2 1/2	3	3 1/2	4	3/4	.08	.12	.....	.15	.17	.23	.25	.27	.29	.32	.35	
1 1/2	2	2 1/2	3	3 1/2	4	1	.11	.18	.....	.20	.24	.31	.33	.37	.41	.45	.48	
1 5/8	2 1/2	3	3 1/2	4	4 1/2	1 1/4	.15	.23	.....	.27	.32	.39	.45	.50	.55	.60	.65	
1 3/4	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.18	.27	.....	.34	.39	.48	.52	.60	.67	.72	.80	
2	2 1/2	3	3 1/2	4	4 1/2	2	.24	.36	.....	.43	.51	.67	.72	.80	.87	.96	1.03	
2 1/2	3	3 1/2	4	4 1/2	5	2 1/2	.52	.79	.....	.....	.91	1.20	1.30	1.40	1.55	1.68	1.80	
2 5/8	3	3 1/2	4	4 1/2	5	3	.65	.96	.....	1.13	1.44	1.60	1.77	1.93	2.10	2.27	.....	
2 3/4	4	4 1/2	5	5 1/2	6	3 1/2	1.00	1.40	.....	.....	1.75	1.95	2.15	2.35	2.55	2.75	.....	
2 7/8	4	4 1/2	5	5 1/2	6	4	1.15	1.60	.....	.....	2.00	2.25	2.50	2.75	3.00	3.25	.....	

\*These lengths conform to the Manufacturers' Standard.

Add 60 per cent to above prices for galvanized right and left nipples.

### GALVANIZED RIGHT-HAND NIPPLES

LENGTH, INCHES						Size, Inches	PRICE, EA.		PRICE, EXTRA LONG NIPPLES, EACH									
*Close	*Short	Long					Close or Short	Long	LENGTH, INCHES									
									4	5	6	7	8	9	10	11	12	
3/4	1 1/2	2	2 1/2	3	3 1/2	1/8	.06	.11	.12	.15	.17	.21	.24	.26	.29	.31	.34	
7/8	1 1/2	2	2 1/2	3	3 1/2	1/4	.06	.11	.12	.15	.17	.21	.24	.26	.29	.31	.34	
1	1 1/2	2	2 1/2	3	3 1/2	3/8	.06	.11	.12	.15	.17	.21	.24	.26	.29	.31	.34	
1 1/8	1 1/2	2	2 1/2	3	3 1/2	1/2	.06	.11	.13	.16	.18	.23	.26	.28	.31	.33	.36	
1 3/8	2	2 1/2	3	3 1/2	4	3/4	.08	.14	.....	.18	.21	.26	.29	.32	.35	.38	.41	
1 1/2	2	2 1/2	3	3 1/2	4	1	.11	.19	.....	.24	.28	.34	.38	.42	.47	.51	.55	
1 5/8	2 1/2	3	3 1/2	4	4 1/2	1 1/4	.17	.29	.....	.32	.38	.45	.51	.57	.63	.69	.75	
1 3/4	2 1/2	3	3 1/2	4	4 1/2	1 1/2	.21	.35	.....	.39	.46	.55	.63	.70	.77	.84	.91	
2	2 1/2	3	3 1/2	4	4 1/2	2	.27	.47	.....	.52	.61	.74	.83	.93	1.03	1.13	1.23	
2 1/2	3	3 1/2	4	4 1/2	5	2 1/2	.56	.86	.....	1.00	1.26	1.41	1.56	1.71	1.86	2.01		
2 5/8	3	3 1/2	4	4 1/2	5	3	.70	1.10	.....	1.30	1.60	1.80	2.00	2.20	2.40	2.60		
2 3/4	4	4 1/2	5	5 1/2	6	3 1/2	1.20	1.70	.....	.....	2.10	2.35	2.60	2.85	3.15	3.40		
2 7/8	4	4 1/2	5	5 1/2	6	4	1.35	1.87	.....	.....	2.30	2.60	2.90	3.20	3.50	3.80		
2 7/8	4	4 1/2	5	5 1/2	6	4 1/2	1.85	2.60	.....	.....	3.30	3.65	4.05	4.45	4.85	5.25		
3	4 1/2	5	5 1/2	6	6 1/2	5	2.30	3.15	.....	.....	3.75	4.20	4.60	5.00	5.40	5.85		
3 1/8	4 1/2	5	5 1/2	6	6 1/2	6	2.80	4.25	.....	.....	4.50	5.00	5.55	6.05	6.60	7.15		
3 1/4	5	.....	.....	.....	.....	7	4.25	.....	.....	4.95	5.65	6.35	7.05	7.75	8.45	9.20		
3 1/2	5	.....	.....	.....	.....	8	5.00	.....	.....	5.80	6.65	7.50	8.35	9.25	10.10	10.95		

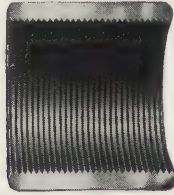
\*These lengths conform to the Manufacturers' Standard.

Nipples made to order from galvanized extra heavy pipe at double above list.



## WROUGHT IRON FITTINGS

### STANDARD COUPLINGS



J-4856

Size Pipe Inches	Nom. O. S. Diam. Inches	Length Inches	PRICE, EACH		
			R. H. Black	R. H. Galv.	R. & L. Black
1/8	19/32	15/16	.05	.06	...
1/4	3/4	1 1/32	.05	.06	.07
3/8	29/32	1 5/32	.06	.08	.08
1/2	1 3/32	1 7/16	.07	.10	.11
3/4	1 11/32	1 9/16	.10	.13	.15
1	1 5/8	1 13/16	.13	.18	.20
1 1/4	1 3/2	2 1/16	.17	.25	.25
1 1/2	2 1/8	2 5/16	.21	.32	.30
2	2 3/4	2 9/16	.28	.40	.50
2 1/2	3 1/8	2 7/8	.40	.55	.85
3	3 5/8	3 1/16	.60	.80	1.20
3 1/2	4 1/16	3 7/16	.80	1.05	1.60
4	4 5/8	3 3/4	1.00	1.40	2.00
4 1/2	5 1/4	3 5/8	1.50	2.00	...
5	6 1/4	4 1/8	1.65	2.25	...
6	7 3/8	4 1/2	2.40	3.25	...
7	8 1/2	4 5/8	3.25	...	...
8	9 1/4	4 5/8	4.25	...	...
9	10 5/8	5 1/8	5.50	...	...
10	11 5/8	6 1/8	7.50	...	...
12	13 7/8	6 1/8	10.00	...	...

### LONG SCREWS



J-4858

Coupling and locknut faced. In ordering, specify length of thread wanted.

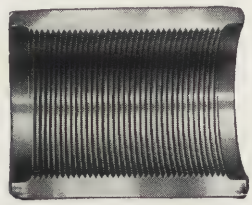
Size Pipe Inches	Std. Length Inches	PRICE, EACH	
		Black	Galv.
1/4	2 1/2	.30	.35
3/8	3	.35	.40
1/2	3 1/2	.40	.50
3/4	4	.55	.66
1	4 1/2	.75	1.00
1 1/4	5	1.00	1.25
1 1/2	5 1/2	1.30	1.60
2	6	1.70	2.10
2 1/2	7	2.70	3.10
3	8	3.70	4.70
3 1/2	8 1/2	5.40	6.50
4	9	6.60	7.75

### CASING COUPLINGS

Casing Coupling



J-4860

Line, Tubing and  
Drive Coupling

J-4862

Size Inches	PRICE, EACH		R. & L.
	Black	Galv.	
2	.16	.23	1.70
2 1/4	.20	.28	1.80
2 1/2	.25	.35	2.00
2 3/4	.30	.42	2.10
3	.35	.50	2.50
3 1/4	.40	.57	2.60
3 1/2	.46	.65	3.00
3 3/4	.52	.73	3.10
4	.60	.85	3.70
4 1/4	.68	1.00	3.95
4 1/2	.74	1.05	4.55
4 3/4	.80	1.15	4.85
5	.90	1.30	5.25
5 3/16	1.00	1.40	5.50
5 5/8	1.20	1.70	6.10
6 1/4	1.35	1.90	6.45
6 5/8	1.50	2.15	7.10
7 1/4	1.65	2.35	7.55
7 5/8	1.75	2.50	8.30
8 1/4	2.25	3.25	9.30
8 5/8	2.85	3.75	10.25
9 5/8	3.50	5.00	11.80
10 5/8	4.50	6.15	13.25
11 5/8	5.15	6.95	14.25

### TUBING, LINE PIPE AND DRIVE PIPE COUPLINGS

Size Inches	PRICE, EACH		R. & L.
	R. HAND Black	Galv.	
1	.15	.21	.31
1 1/4	.25	.37	.53
1 1/2	.30	.46	.63
2	.40	.57	.98
2 1/2	.60	.85	1.70
3	.80	1.15	2.25
3 1/2	1.30	1.90	3.65
4	1.50	2.15	4.20
4 1/2	2.00	2.85	9.15
5	2.40	3.45	10.50
6	2.80	4.00	12.00
7	3.85	5.55	12.75
8	4.00	5.80	15.75
9	5.00	7.25	16.75
10	6.00	8.75	20.25
12	8.00	11.15	25.50

# FLOOR AND CEILING PLATES

## B & C PLATES

### FLOOR PLATES WITH GROOVE



J-4864

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
1/2	.06	2	.16	5	.60
3/4	.06	2 1/2	.24	6	.75
1	.08	3	.30	8	1.75
1 1/4	.11	3 1/2	.35	..	....
1 1/2	.14	4	.42	..	....

### CEILING PLATES

#### Split



Solid

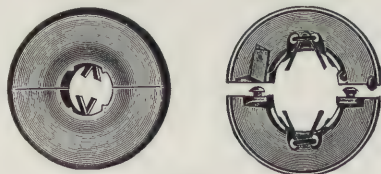
J-4868

Size Inches	Price, Each Solid	Price, Each Split	Size Inches	Price, Each Solid	Price, Each Split
1/2	.11	...	3	.50	.90
3/4	.13	.22	3 1/2	.55	1.00
1	.16	.28	4	.68	1.20
1 1/4	.18	.32	5	.95	2.00
1 1/2	.23	.40	6	1.25	2.50
2	.27	.50	8	....	3.75
2 1/2	.36	.65	...	....	....

### ADJUSTABLE FLOOR AND CEILING PLATES

#### Top View

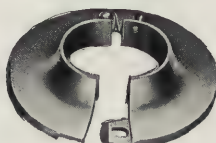
#### Bottom View



J-4870

Size Inches	Price, Each Plain	Price, Each N. P.	Size Inches	Price, Each Plain	Price, Each N. P.
1/2	.16	.27	2	.30	.45
3/4	.17	.28	2 1/2	.50	.65
1	.20	.32	3	.65	.80
1 1/4	.22	.35	3 1/2	.80	1.00
1 1/2	.25	.38	4	1.00	1.25

### No. 3 Floor and Ceiling Plate With Set Screw



J-4872

### No. 6 Floor Plate



J-4874

Size Inches	Black	Nickel-plated	Cast Brass
1/4	.14	.25	1.00
3/8	.15	.26	1.00
1/2	.16	.27	1.00
3/4	.17	.28	1.20
1	.20	.32	1.30
1 1/4	.22	.35	1.60
1 1/2	.25	.38	1.80
2	.30	.45	2.00
2 1/2	.50	.65	2.50
3	.65	.80	3.00
3 1/2	.80	1.00	4.00
4	1.00	1.25	5.00
4 1/2	1.25	1.50	6.00
5	1.50	1.75	7.00
6	1.75	2.00	9.00
7	2.00	2.25	10.00
8	2.25	2.50	12.00
9	2.50	2.75	14.00
10	2.75	3.00	16.00

### No. 7 Floor and Ceiling Plate



J-4876

### No. 10 Floor and Ceiling Hinged



J-4878

Size Inches	Nos. 7 AND 10 Black	N. P.	No. 7 Cast Brass	No. 10 Sheet Brass
3/8	.15	.26	1.00	.60
1/2	.16	.27	1.00	.62
3/4	.17	.28	1.20	.65
1	.20	.32	1.30	.72
1 1/4	.22	.35	1.60	.80
1 1/2	.25	.38	1.80	.85
2	.30	.45	2.00	1.00
2 1/2	.50	.65	2.50	1.50
3	.65	.80	3.00	1.80
3 1/2	.80	1.00	....	2.25
4	1.00	1.25	....	2.75

The No. 7 is made in sizes up to 3 inches only.

## PIPE HANGERS, HOOKS, ETC.

### PIPE HANGERS

**SOLID RING**



J-4882

**SPLIT RING  
CONCEALED  
SCREW**



J-4884

Size Inches	SOLID RING PRICE, PER 100		Split Ring Price, per 100, Galv.
	Blk.	Galv.	
3/8	5.00	6.50	17.00
1/2	5.00	6.50	17.00
3/4	5.80	7.00	20.00
1	7.75	9.00	25.00
1 1/4	0.00	2.00	30.00
1 1/2	14.00	16.00	40.00
2	22.00	25.00	50.00

### PIPE HOOKS AND STRAPS

**GAS PIPE HOOK**



J-4890

**TINNED PIPE STRAP**



J-4892

Size Inches	Gas Hooks Price per 100	TINNED STRAPS	
		Weight Per 100 Pounds	Price per Pound
1/4	.45	1 1/2	.30
3/8	.55	1 3/4	.30
1/2	.65	2 1/2	.30
3/4	.80	3 1/2	.30
1	1.00	5	.30
1 1/4	1.30	7 3/4	.30
1 1/2	1.60	0	.30
2	2.00	11 1/2	.30

**SOLID EXPANSION**



J-4886

**SPLIT EXPANSION**



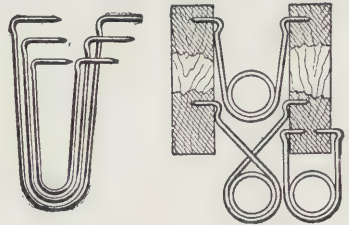
J-4888

Size Inches	For Pipe Inches	PRICE, EACH			
		LESS NIPPLES		RINGS ONLY	
		Blk.	Galv.	Blk.	Galv.
3/4	1/4	.17	.25	.08	.18
1	1/4	.18	.25	.12	.18
1 1/4	1/4	.19	.28	.15	.20
1 1/2	1/4	.25	.35	.20	.30
2	1/4	.29	.45	.25	.37

**SPLIT EXPANSION**

Size Inches	PRICE, EACH			
	WITH NIPPLE		LESS NIPPLE	
	Blk.	Galv.	Blk.	Galv.
3/8	.22	.25	.17	.20
1/2	.22	.25	.17	.20
3/4	.27	.30	.22	.25
1	.32	.35	.27	.30
1 1/4	.35	.40	.30	.35
1 1/2	.40	.50	.35	.45
2	.50	.60	.45	.55

### REZNOR STEEL WIRE PIPE HOOKS



J-4894

In ordering, always specify the length of hook desired, otherwise the shortest—or standard length—will be shipped.

Pipe Size Inches	PRICE, PER 100		
	LENGTH, INCHES		
	3	4	6
3/8	1.00	1.15	1.40
1/2	1.10	1.20	1.50
3/4	....	1.30	1.70
1	....	1.50	2.00
1 1/4	....	1.90	2.50
1 1/2	....	....	2.70
2	....	....	2.90

Pipe Size Inches	PRICE, PER 100		
	LENGTH, INCHES		
	8	10	..
1/2	1.90	....	....
3/4	2.20	....	....
1	2.40	2.80	....
1 1/4	3.00	3.50	....
1 1/2	3.50	4.00	....
2	4.00	4.50	....



# PIPE HANGERS AND CLAMPS GRABLER HINGE RING HANGERS

PATENTED



J-4896

Size Inches	Price Each	Size Inches	Price Each
$\frac{1}{2}$	.19	$4\frac{1}{2}$	.39
$\frac{3}{4}$	.19	5	.41
1	.21	6	.45
$1\frac{1}{4}$	.23	7	.70
$1\frac{1}{2}$	.25	8	.95
2	.27	9	1.20
$2\frac{1}{2}$	.29	10	1.50
3	.31	11	1.70
$3\frac{1}{2}$	.35	12	2.00
4	.37	...	...

Extension Bar



J-4902

Malleable Iron Socket



J-4904

No.	EXTENSION BARS		Price per Ft.	SOCKETS		Price Each
	For Pipe Inches	For Pipe Inches		Tapped Inches	Tapped Inches	
1	$\frac{1}{2}$ to	$1\frac{1}{2}$	.08	$\frac{1}{8}$	$\frac{1}{8}$	.08
2	2	3	.09	$\frac{1}{4}$	$\frac{1}{4}$	.10
3	$3\frac{1}{2}$	6	.10	$\frac{3}{8}$	$\frac{3}{8}$	.12
4	7	8	.20	$\frac{1}{2}$	$\frac{1}{2}$	.15
5	9	12	.28	$\frac{3}{4}$	$\frac{3}{4}$	.20

## LAG SCREWS

With Bolt



J-4898

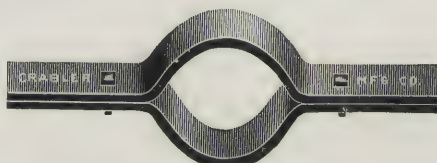
Threaded End



J-4900

## HEAVY EXTENSION PIPE CLAMPS

With Bolts



J-4906

No.	PRICE, EACH		For Pipe Inches	Size Stock Inches	Price Each
	With Bolt	Threaded End			
1	.10	.10	3	$\frac{1}{4} \times 1\frac{1}{4}$	.70
2	.12	.12	$3\frac{1}{2}$	$\frac{1}{4} \times 1\frac{1}{4}$	.75
3	.14	.14	4	$\frac{1}{4} \times 1\frac{1}{4}$	.80
4	.20	.20	$4\frac{1}{2}$	$\frac{1}{4} \times 1\frac{1}{4}$	.85
5	.25	...	5	$\frac{1}{4} \times 1\frac{1}{4}$	.90
			6	$\frac{3}{8} \times 1\frac{1}{2}$	1.15
			7	$\frac{3}{8} \times 1\frac{1}{2}$	1.30
			8	$\frac{3}{8} \times 1\frac{1}{2}$	1.45
			9	$\frac{3}{8} \times 1\frac{1}{2}$	1.60
			10	$\frac{1}{2} \times 2$	1.90
			12	$\frac{1}{2} \times 2$	2.20
			14	$\frac{1}{2} \times 2$	2.50
			16	$\frac{1}{2} \times 2$	2.80



## PIPE CLAMPS AND SADDLES

**MALLEABLE IRON, WITH WROUGHT IRON STRAPS**

**Water Pipe Clamps**



**J-4908**



**J-4910**

**Steam Pipe Saddle**



**J-4912**

### WATER PIPE CLAMPS

CLAMPS WILL FIT									
Number	Outside Diameter of Circle, Inches	Size, Wrought Iron Pipe, Inches	Size, Outside Diameter, Casing Inches	Size, Cast Iron Pipe, Inches	Size of Wrought Iron Pipe Connections Pipe Clamps are Tapped for, Inches	Price, Each	Number	Outside Diameter of Circle, Inches	Size, Wrought Iron Pipe, Inches
0	1 1/8	1 1/2	2	..	1/2 and 3/4	1.00	19	6 5/8	6
1	2 3/8	2	2 1/2	..	1/2 to 1	1.00	20	6 5/8	6
2	2 1/2	2 1/2	2 3/4 & 3	2	1 1/2 " 1 1/4	1.25	21	6 5/8	6
3	3 1/8	3	3 1/2	..	1 1/2 " 1	1.25	22	7	..
4	3 1/2	3	3 1/2	..	1 1/2 " 2	1.50	23	7	..
5	4	3 1/2	4	3	1 1/2 " 1	1.50	24	7	..
6	4	3 1/2	4	3	1 1/2 " 2	1.75	25	7 5/8	7
7	4 1/2	4	4 1/2	..	1 1/2 " 1 1/2	1.75	26	7 5/8	7
8	4 1/2	4	4 1/2	..	2	2.00	27	7 5/8	7
9	4 1/2	4	4 1/2	..	2 1/2 and 3	4.00	28	8	..
10	5	4 1/2	5	4	3/4 to 1 1/2	1.80	29	8	..
11	5	4 1/2	5	4	2	2.15	30	8	..
12	5	4 1/2	5	4	2 1/2 and 3	4.00	30 1/2	8 5/8	8
13	5 1/8	5	5 1/2	..	3/4 to 1 1/2	1.80	31	8 5/8	8
14	5 1/4	5	5 1/2	..	2	2.15	32	8 5/8	8
15	5 1/2	5	5 1/2	..	2 1/2 and 3	4.00	33	9 5/8	9
16	6	..	6	5	1/2 to 1 1/2	2.00	34	10	..
17	6	..	6	5	2	2.40	35	10 3/4	10
18	6	..	6	5	2 1/2 and 3	4.50	36	12 3/4	12
CLAMPS WILL FIT									
Number	Outside Diameter of Circle, Inches	Size, Wrought Iron Pipe, Inches	Size, Outside Diameter, Casing Inches	Size, Cast Iron Pipe, Inches	Size of Wrought Iron Pipe Connections Pipe Clamps are Tapped for, Inches	Price, Each	Number	Outside Diameter of Circle, Inches	Size, Wrought Iron Pipe, Inches
19	6 5/8	6	6 3/8	..	3/4 to 1 1/2	2.25	37	12 3/4	12
20	6 5/8	6	6 5/8	..	2	2.50	38	12 3/4	12
21	6 5/8	6	6 5/8	..	2 1/2 and 3	5.00	39	12 3/4	12
22	7	..	7	6	3/4 to 1 1/2	2.50	40	12 3/4	12
23	7	..	7	6	2	2.70	41	12 3/4	12
24	7	..	7	6	2 1/2 and 3	5.00	42	12 3/4	12
25	7 5/8	7	7 5/8	..	3/4 to 1 1/2	2.50	43	12 3/4	12
26	7 5/8	7	7 5/8	..	2	2.70	44	12 3/4	12
27	7 5/8	7	7 5/8	..	2 1/2 and 3	5.00	45	12 3/4	12
28	8	..	8	7	3/4 to 1 1/2	4.50	46	12 3/4	12
29	8	..	8	7	2	5.00	47	12 3/4	12
30	8	..	8	7	2 1/2 and 3	5.50	48	12 3/4	12
31	8 5/8	8	8 5/8	..	3/4 to 1 1/2	5.50	49	12 3/4	12
32	8 5/8	8	8 5/8	..	2 to 3	5.50	50	12 3/4	12
33	8 5/8	8	8 5/8	..	4	6.00	51	12 3/4	12
34	9 5/8	9	..	..	1 1/2 to 3	8.00	52	12 3/4	12
35	10 3/4	10	..	9	3/4 " 2	9.00	53	12 3/4	12
36	12 3/4	12	..	..	3/4 " 2	9.00	54	12 3/4	12
					3/4 " 2	10.00			

Always order water pipe clamps by number.  
 Sizes Nos. 33, has malleable iron strap.

### STEAM PIPE SADDLES

Size of Pipe...in.	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2
Tapped for Pipe	1/2 and 3/4	1/2 to 1 1/2	3/4 to 1 1/2	3/4 to 2	3/4 to 2	3/4 to 2	3/4 to 2
Price.....each	.90	1.00	1.25	1.25	1.40	1.50	2.50
Size of Pipe...in.	5	5	6	6	7	8	9
Tapped for Pipe	3/4 to 2	2 1/2 and 3	3/4 to 2	2 1/2 to 4	1 to 4	1 to 4	1 1/2 to 4
Price.....each	2.75	2.75	2.75	5.75	6.50	6.50	8.50
Size of Pipe...in.	10	10	12	12	15	16	.....
Tapped for Pipe	1 1/2 to 4	4 1/2 to 6	1 1/2 to 4	4 1/2 to 6	3 to 6	3 to 6	.....
Price.....each	10.00	10.00	14.00	14.00	22.00	25.00	...

## ROUGH BRASS FITTINGS

MALLEABLE IRON PATTERN, IRON PIPE SIZE

**ELBOW**



**J-4952**

**TEE**



**J-4954**

**CROSS**



**J-4956**

**UNION**



**J-4958**

Size .....	inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows, 90° .....	each	.12	.15	.20	.28	.40	.63	.90	1.20	2.00	3.50	6.00	8.00	10.00
" Reducing .....	"	..	.19	.25	.35	.50	.80	1.10	1.50	2.50	4.25	7.50	10.00	12.50
" 45° .....	"	..	.16	.20	.25	.31	.40	.63	.90	1.20	2.00	3.50	6.00	8.00
" Street .....	"	..	.25	.27	.33	.48	.63	.85	1.50	2.00	3.25	..	..	..
" Side Outlet .....	"	..	..	.60	.85	1.20	1.90	2.75	3.60	6.00	10.50	18.00	..	..
" Drop, Female .....	"	..	..	.35	.45	.65	1.05	1.50	2.00	3.40	..	..	..	..
Tees .....	"	.17	.21	.28	.40	.55	.85	1.25	1.70	2.80	5.00	8.50	11.00	14.00
" Reducing .....	"	..	.25	.35	.50	.70	1.05	1.55	2.10	3.50	6.25	10.50	14.00	17.50
" Drop .....	"	..	..	.43	.57	.80	1.25	..	..	..	..	..	..	..
" Side Outlet .....	"	..	..	..	1.20	1.65	2.50	3.75	5.00	8.50	..	..	..	..
Crosses .....	"	.25	.30	.40	.55	.80	1.25	1.80	2.40	4.00	7.00	12.00	16.00	20.00
" Reducing .....	"	..	.38	.50	.70	1.00	1.55	2.25	3.00	5.00	8.75	15.00	20.00	25.00
Couplings .....	"	.10	.13	.17	.25	.37	.55	.80	1.00	1.60	2.50	3.50	5.25	7.00
" R. and L. .....	"	..	.17	.22	.30	.45	.70	1.00	1.30	2.00	3.10	4.50	..	..
" Reducing .....	"	..	.15	.20	.28	.40	.60	.90	1.10	1.75	2.75	4.00	6.00	8.00
Bushings, Regular .....	"	..	.10	.12	.15	.22	.35	.50	.70	1.00	1.50	2.50	3.75	5.00
" Faced .....	"	..	.12	.15	.19	.27	.44	.62	.87	1.25	1.85	3.10	4.75	6.25
Plugs, Regular .....	"	.08	.10	.12	.15	.20	.30	.45	.60	.95	1.50	2.25	3.75	5.00
" Solid .....	"	..	..	.18	.22	.30	.45	.80	1.20	1.90	3.00	4.50	7.50	10.00
" Countersunk .....	"	..	..	..	.22	.30	.45	.65	.90	1.40	..	..	..	..
Caps .....	"	.10	.13	.16	.20	.30	.42	.60	.80	1.25	2.50	3.50	5.50	7.00
Locknuts .....	"	.10	.10	.12	.15	.20	.28	.40	.55	.80	1.75	2.75	4.00	5.00
Return Bends, Close .....	"	..	..	..	.70	1.00	1.25	1.80	2.50	4.25	..	..	..	..
" Open .....	"	..	..	..	.80	1.10	1.40	2.15	3.00	4.75	8.25	11.00	..	..
"Y" Bends .....	"	..	..	..	.75	1.10	1.65	2.50	3.30	5.50	9.50	16.00	..	26.00
Unions, Standard, Rough .....	"	..	.50	.65	.85	1.15	1.60	2.25	2.70	4.00	7.50	11.50	..	..
" " Semifinished .....	"	.45	.55	.75	.95	1.30	1.75	2.50	3.00	4.50	8.25	12.75	22.50	30.00

Right and left elbows and return bends, also bushings and reducers reducing more than two sizes, can be furnished at an advance of 25 per cent over above prices.

## BRASS FITTINGS

## MALLEABLE IRON PATTERN, IRON PIPE THREAD

For Steam Working Pressure up to 125 Pounds

Effective January 1, 1915

## FINISHED

Size .....inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows, 90°.....each	.30	.35	.45	.56	.75	1.10	1.55	2.00	3.00	5.50	9.00	14.00	17.50
“ Reducing.. “	.44	.55	.70	.95	1.40	1.90	2.50	3.75	6.75	11.25	17.50	22.00	
“ 45°..... “	.38	.45	.55	.66	.85	1.23	1.70	2.20	3.25	6.00	9.75	15.50	19.50
“ Street..... “	.47	.52	.63	.83	1.08	1.45	2.30	3.00	4.50	8.50	13.75	....	....
Tees..... “	.42	.49	.63	.80	1.05	1.50	2.15	2.80	4.20	7.75	12.75	19.50	24.50
“ Reducing..... “	..	.60	.77	1.00	1.30	1.85	2.65	3.50	5.25	9.75	15.80	24.50	30.50
Crosses..... “	.60	.70	.90	1.10	1.50	2.20	3.10	4.00	6.00	11.00	18.00	28.00	35.00
“ Reducing.. “	..	.88	1.10	1.40	1.85	2.75	3.85	5.00	7.50	13.75	22.50	35.00	44.00
Couplings..... “	.24	.28	.36	.46	.63	.90	1.30	1.60	2.35	4.00	5.75	9.75	12.50
“ R. and L. “	.31	.37	.47	.58	.80	1.15	1.65	2.10	3.00	5.10	7.50	....	....
“ Reducing “	..	.35	.45	.56	.75	1.05	1.55	1.90	2.75	4.75	7.00	12.00	15.50
Bushings, Regular. “	..	.22	.27	.35	.47	.70	1.00	1.40	2.00	3.00	4.50	6.25	8.00
Plugs..... “	.23	.30	.37	.43	.55	.75	1.00	1.30	1.95	3.00	4.25	6.25	8.00
Caps..... “	.20	.25	.31	.40	.55	.77	1.10	1.50	2.25	4.00	5.50	8.00	10.00
Locknuts..... “	.24	.25	.32	.40	.50	.65	.85	1.10	1.60	3.25	4.75	6.50	8.00
Return Bends, Close..... “	..	....	1.30	1.55	2.05	2.65	3.75	4.90	7.25	13.00	19.00	....	....
“ Open..... “	..	....	1.35	1.65	2.15	2.80	4.10	5.40	7.75	14.25	20.00	....	....
“Y” Bends..... “	..	....	1.35	1.60	2.15	3.05	4.45	5.70	8.50	15.50	25.00	33.00	41.00
Unions..... “	.50	.60	.85	1.05	1.40	1.90	2.75	3.25	5.00	9.00	14.00	25.00	33.00

## NICKEL-PLATED

Size .....inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Elbows, 90°.....each	.36	.42	.53	.65	.87	1.25	1.75	2.25	3.35	6.15	10.00	16.00	20.00
“ Reducing.. “	..	.52	.65	.82	1.10	1.60	2.15	2.85	4.15	7.60	12.50	20.00	25.00
“ 45°..... “	.45	.53	.65	.78	1.00	1.43	1.95	2.55	3.65	6.85	11.00	18.00	22.50
“ Street..... “	.54	.60	.73	.95	1.23	1.65	2.55	3.35	4.90	9.35	15.00	....	....
Tees..... “	.50	.58	.75	.93	1.22	1.70	2.45	3.15	4.65	8.65	14.00	22.30	28.00
“ Reducing..... “	..	.72	.90	1.15	1.50	2.10	3.00	3.95	5.85	10.90	17.50	28.00	35.00
Crosses..... “	.72	.84	1.05	1.30	1.75	2.50	3.50	4.50	6.70	12.30	20.00	32.00	40.00
“ Reducing.. “	..	1.05	1.30	1.65	2.15	3.15	4.35	5.70	8.30	15.40	25.00	40.00	50.00
Couplings..... “	.29	.33	.42	.53	.72	1.00	1.45	1.80	2.60	4.50	6.50	11.25	14.25
“ R. and L. “	.37	.44	.55	.67	.92	1.30	1.85	2.35	3.35	5.75	8.50	....	....
“ Reducing “	..	.42	.53	.65	.87	1.20	1.75	2.15	3.10	5.40	8.00	14.00	18.00
Bushings, Regular. “	..	.26	.32	.42	.55	.82	1.15	1.65	2.35	3.50	5.15	7.10	9.00
Plugs..... “	.28	.37	.45	.52	.67	.90	1.20	1.55	2.30	3.50	4.90	7.10	9.00
Caps..... “	.23	.29	.36	.47	.63	.89	1.25	1.75	2.60	4.50	6.15	8.85	11.00
Locknuts..... “	.29	.30	.39	.48	.60	.77	1.00	1.30	1.85	3.75	5.40	7.35	9.00
Return Bends, Close..... “	..	....	1.55	1.85	2.40	3.10	4.40	5.70	8.25	15.00	22.00	....	....
“ Open..... “	..	....	1.60	1.95	2.50	3.25	4.75	6.20	8.75	16.25	23.00	....	....
“Y” Bends..... “	..	....	1.60	1.90	2.50	3.50	5.10	6.50	9.50	17.50	28.00	37.00	46.00
Unions..... “	.60	.72	1.02	1.26	1.68	2.28	3.30	3.90	6.00	10.80	16.80	30.00	39.60

Elbows tapped right and left-hand, add 25 per cent to list.

Right and left elbows, tees, crosses, reducers and bushings, reducing more than two sizes, add 25 per cent to list.



# BRASS NIPPLES AND TUBING

## BRASS NIPPLES, IRON PIPE SIZE



Size Inches	Length Close Inches	PRICE, EACH										
		LENGTH, INCHES										
		Close	1½	2	2½	3	3½	4	4½	5	5½	6
1/8	3/4	.11	.13	.15	.17	.19	.21	.23	.25	.27	.29	.31
1/4	7/8	.13	.16	.19	.22	.25	.28	.31	.34	.37	.40	.43
3/8	1	.15	.19	.23	.27	.31	.35	.39	.43	.47	.51	.55
1/2	1 1/8	.23	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70
3/4	1 3/8	.28	....	.35	.42	.49	.56	.63	.70	.77	.84	.91
1	1 1/2	.37	....	.44	.53	.62	.71	.80	.89	.98	1.07	1.16
1 1/4	1 5/8	.60	....	....	.75	.88	1.01	1.14	1.27	1.40	1.53	1.66
1 1/2	1 3/4	.70	....	....	.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95
2	2	1.00	....	....	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60
2 1/2	2 1/2	1.70	....	....	....	2.00	2.30	2.60	2.90	3.20	3.50	3.80
3	2 1/2	2.50	....	....	....	2.90	3.30	3.70	4.10	4.50	4.90	5.30
3 1/2	2 3/4	4.00	....	....	....	....	....	5.40	6.00	6.60	7.20	7.80
4	3	4.75	....	....	....	....	....	6.15	6.85	7.55	8.25	8.95
4 1/2	3	5.50	....	....	....	....	....	7.20	8.05	8.90	9.75	10.60
5	3 1/2	8.50	....	....	....	....	....	....	10.60	11.65	12.70	13.75
6	3 1/2	11.50	....	....	....	....	....	....	14.10	15.40	16.70	18.00

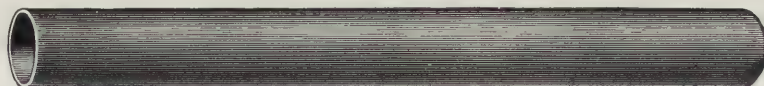
Polished brass nipples, longer than close, 25 per cent extra.

Nickel-plated, add 20 per cent to polished list.

## TABLE OF LENGTHS OF CLOSE AND SHORT NIPPLES

Size.....inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4
Length, Close....."	3/4	7/8	1	1 1/8	1 3/8	1 1/2	1 5/8
" Short....."	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2 1/2
" Shoulder....."	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2 1/2
Size....."	1 1/2	2	2 1/2	3	3 1/2	4	....
Length, Close....."	1 3/4	2	2 1/2	2 1/2	2 3/4	3	....
" Short....."	2 1/2	2 1/2	3	3	4	4	....
" Shoulder....."	2 1/2	2 1/2	3	3	4	4	....

## SEAMLESS BRASS TUBING IRON PIPE SIZE



### EXTRAS OVER BASE PRICES

Iron Pipe Size.....inches	1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Approx. Wt. per Foot. lbs.	.25	.43	.62	.9	1.25	1.7	2.5	3	4
Price.....per pound	.10	.07	.04	.02	BASE PRICE				
Iron Pipe Size.....inches	2 1/2	3	3 1/2	4	4 1/2	5	6	7	8
Approx. Wt. per Foot. lbs.	5.75	8.3	10.9	12.7	13.9	15.75	18.31	26.28	29.88
Price.....per pound	BASE PRICE				.03	.06	.07	.09	.11

Stock lengths, 12 feet.



## STANDARD BRASS VALVES

### WITH BRASS DISC



### GLOBE, ANGLE AND CROSS—SCREWED

Size .....	inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, Globe or Angle .....	each	.72	.72	.77	1.00	1.26	1.80	2.52	3.50	5.30	10.00	14.40
“ Cross .....	“	1.25	1.25	1.50	2.00	2.50	3.50	5.00	8.00	16.00	24.00	

### GLOBE AND ANGLE—FLANGED

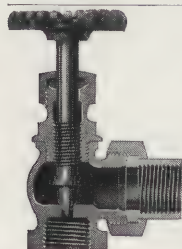
Size .....	inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4
Diam. of Flanges .....	inches	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6	7	$7\frac{1}{2}$	$8\frac{1}{2}$	9
Price .....	each	5.00	6.75	8.50	10.50	16.00	23.00	35.00	50.00	70.00

### GLOBE AND ANGLE—WITH WOOD WHEEL

Size .....	inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, Plain .....	each	1.15	1.25	1.40	1.75	2.35	3.25	4.35	6.85
“ Plated .....	“	1.40	1.55	1.70	2.10	2.75	3.70	4.85	7.60
“ Finished .....	“	1.85	2.00	2.15	2.50	3.25	4.35	5.75	9.00
“ “ and Plated .....	“	2.15	2.30	2.45	2.85	3.65	4.80	6.25	9.75

### GLOBE AND ANGLE—WITH FINISHED BRASS WHEEL

Size .....	inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, Finished .....	each	2.75	3.00	3.15	3.50	4.25	5.60	7.00	10.25
“ “ and Plated .....	“	3.25	3.50	3.70	4.10	4.90	6.30	7.75	11.25



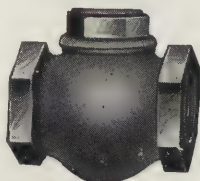
J-5010

### GLOBE AND ANGLE—NEEDLE POINT

Size .....	inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Size of Feed Opening .....	inches	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$
Price, Globe, Female Openings .....	each	1.40	1.50	2.00	2.50
“ Angle, “ “ .....	“	1.40	1.50	2.00	2.50
“ “ with Union .....	“	2.00	2.20	3.00	3.50

## STANDARD BRASS CHECK VALVES

**HORIZONTAL**



**J-5012**

**ANGLE**



**J-5014**

**VERTICAL**



**J-5016**

### HORIZONTAL, ANGLE AND VERTICAL—SCREWED

Size .....	inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Price, Horizontal .....	each	.65	.65	.70	.90	1.15	1.60	2.25
“ Angle or Vertical .....	“	....	.72	.77	1.00	1.26	1.80	2.52
Size .....	inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	....
Price, Horizontal .....	each	3.15	4.75	9.00	13.00	24.00	32.50	....
“ Angle or Vertical .....	“	3.50	5.30	10.00	14.40	.....	.....	....

Vertical made to 2-inch only.

### HORIZONTAL—FLANGED

Size .....	inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Diameter of Flanges .....	“	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	6
Price .....	each	4.90	6.50	8.25	10.15	15.50
Size .....	inches	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	....
Diameter of Flanges .....	“	7	$7\frac{1}{2}$	$8\frac{1}{2}$	9	....
Price .....	each	22.00	33.50	47.50	66.50	.....

### HORIZONTAL WITH DRIP COCK—SCREWED—NOT ILLUSTRATED

Size .....	inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Price .....	each	2.15	2.55	3.15	4.05

**HORIZONTAL BALL  
CHECK**



**J-5018**

**SWING**



**J-5020**

### HORIZONTAL, BALL AND SWING—SCREWED

Size .....	inches	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$
Price, Ball Check .....	each	....	1.60	2.30	3.10	4.00
“ Swing Check, with Brass Disc .....	“	1.80	2.00	2.25	2.80	3.65
“ “ “ Leather Disc .....	“	2.40	2.65	2.90	3.60	4.65
Size .....	inches	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	....
Price, Ball Check .....	each	6.20	9.40	....	....	....
“ Swing Check, with Brass Disc .....	“	4.75	6.75	15.00	24.00	....
“ “ “ Leather Disc .....	“	6.00	8.25	....	....	....

## STANDARD BRASS VALVES

WITH JENKINS DISC

GLOBE, IRON WHEEL

GLOBE, WOOD WHEEL



**J-5022**



**J-5024**

### GLOBE, ANGLE AND CROSS—SCREWED

Size.....inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Price, Globe and Angle. each	1.10	1.25	1.60	2.20	2.80	4.00	5.50	8.75	15.75	22.00
" Cross....."	1.70	2.00	2.25	2.50	3.25	4.75	6.25	9.50	20.00	27.50

### GLOBE, ANGLE AND CROSS—FLANGED

Size.....inches	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Price, Globe and Angle.....each	5.00	6.00	9.00	11.00	16.50	25.00	34.00
" Cross....."	8.00	9.00	12.00	15.00	23.00	33.00	44.00

### GLOBE AND ANGLE—WITH WOOD WHEEL

Size.....inches	1/2	3/4	1	1 1/4	1 1/2	2
Price, Rough Body, Plain.....each	2.00	2.50	3.20	4.50	6.25	10.50
" " Nickel-plated All Over....."	2.40	2.90	3.60	4.90	6.65	10.90
" Finished All Over....."	2.50	3.00	3.75	5.25	7.25	11.75
" and Nickel-plated All Over....."	2.90	3.40	4.15	5.65	7.65	12.15

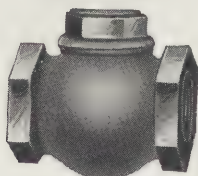
### GLOBE AND ANGLE—WITH FINISHED BRASS WHEEL

Size.....inches	1/2	3/4	1	1 1/4	1 1/2	2
Price, Finished All Over.....each	3.50	4.00	4.75	6.50	8.50	13.00
" and Nickel-plated All Over....."	4.15	4.65	5.40	7.15	9.15	13.65

**HORIZONTAL**

**CHECK**

**ANGLE**



**J-5026**



**J-5028**

### HORIZONTAL OR ANGLE—SCREWED

Size.....inches	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Price.....each	1.10	1.20	1.30	1.90	2.60	3.60	5.00	7.50	13.50	20.50

### HORIZONTAL—FLANGED

Size.....inches	3/4	1	1 1/4	1 1/2	2	2 1/2	3
Price.....each	4.75	5.50	7.80	9.80	15.00	22.80	32.40



### STANDARD PATTERN

**For 150 Pounds Steam Pressure; 250 Pounds Water Pressure**



J-5030



**J-5032**



**J-5034**



**J-5036**

Size In.	PRICE, EACH	
	No. 106, Globe No. 108, Angle Screwed	No. 110 Cross Screwed
$\frac{1}{8}$ , $\frac{1}{4}$	1.10	1.70
$\frac{3}{8}$	1.25	2.00
$\frac{1}{2}$	1.60	2.25
$\frac{3}{4}$	2.20	2.50
1	2.80	3.25

Size In.	PRICE, EACH			
	No. 106, Globe No. 108, Angle Screwed	No. 110 Cross Screwed	No. 107, Globe No. 109, Angle Flanged	No. 111 Cross Flanged
1 1/4	4.00	4.75	9.00	12.00
1 1/2	5.50	6.25	11.00	15.00
2	8.75	9.50	16.50	23.00
2 1/2	15.75	20.00	25.00	33.00
3	22.00	27.50	34.00	44.00

**EXTRA HEAVY PATTERN**

**For 300 Pounds Steam Pressure; 500 Pounds Water Pressure**

Size In.	PRICE, EACH			
	No 128, Globe No 130, Angle Screwed	No 342 Cross Screwed	No 129, Globe No 131, Angle Flanged	No 343 Cross Flanged
$\frac{1}{4}$	3.00	.....	.....	.....
$\frac{3}{8}$	3.50	.....	.....	.....
$\frac{1}{2}$	4.00	4.75	6.00	.....
$\frac{3}{4}$	5.00	5.75	7.50	.....
1	6.50	7.50	10.00	Prices Upon Application

No. 128, Globe		No. 342, Cross		No. 129, Globe		No. 343, Cross	
Size In.	No. 130, Angle Screwed	Price, EACH	No. 131 Angle Screwed	Price, EACH	No. 132 Angle Flanged	Price, EACH	No. 344 Cross Flanged
1 1/4	8.25	9.50	13.00	13.00	13.00	13.00	13.00
1 1/2	11.00	12.50	17.00	17.00	17.00	17.00	17.00
2	16.00	18.00	24.00	24.00	24.00	24.00	24.00
2 1/2	33.00	...	43.00	43.00	43.00	43.00	43.00
3	45.00	...	57.00	57.00	57.00	57.00	57.00

## DISCS

**Round Hole**  
**For 1/4, 3/8 and 2 1/2-inch**  
**and Larger Valves**



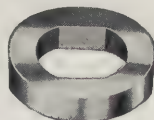
J-5038

**Square Hole**  
For  $\frac{3}{4}$ , 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$   
and 2-inch Valves



J-5040

## Steam Metal



J-5042

### STANDARD DISCS—For 150 Pounds Pressure

Size In.	Price Each	Size In.	Price Each	Size In.	Price Each	Size In.	Price Each	Size In.	Price Each	Size In.	Price Each
$\frac{1}{4}$	.06	1	.12	$2\frac{1}{2}$	.48	$4\frac{1}{2}$	1.40	8	2.80	14	7.00
$\frac{3}{8}$	.08	$1\frac{1}{4}$	.18	3	.80	5	1.60	9	3.60	16	8.00
$\frac{1}{2}$	.08	$1\frac{1}{2}$	.24	$3\frac{1}{2}$	1.00	6	2.00	10	4.50	18	10.00
$\frac{3}{4}$	.10	2	.36	4	1.20	7	2.40	12	5.00	20	12.00

**STEAM METAL DISCS**—For 150 to 300 Pounds Steam Pressure

STEAM METAL DISCS—For 150 to 300 Pounds Steam Pressure													
$\frac{1}{4}$	.14	$\frac{3}{4}$	.20	$1\frac{1}{2}$	.30	3	.85	$4\frac{1}{2}$	2.00	7	3.70	10	5.60
$\frac{3}{8}$	.14	1	.22	2	.34	$3\frac{1}{2}$	1.35	5	2.30	8	4.00	12	7.30
$\frac{1}{2}$	.16	$1\frac{1}{4}$	.28	$2\frac{1}{2}$	.60	4	1.60	6	2.60	9	5.25	14	9.80



## JENKINS BRASS CHECK VALVES

### BRASS CHECK VALVES

#### STANDARD PATTERN

FOR 150 POUNDS PRESSURE

#### HORIZONTAL SCREWED



J-5044

#### ANGLE SCREWED

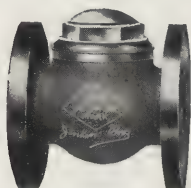


J-5046

#### HORIZONTAL, ANGLE OR VERTICAL—SCREWED

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
$\frac{1}{8}$	1.10	$\frac{3}{4}$	1.90	2	7.50
$\frac{1}{4}$	1.10	1	2.60	$2\frac{1}{2}$	14.00
$\frac{3}{8}$	1.20	$1\frac{1}{4}$	3.60	3	21.00
$\frac{1}{2}$	1.30	$1\frac{1}{2}$	5.00	...	.....

#### HORIZONTAL, FLANGED



J-5048

#### HORIZONTAL, ANGLE OR VERTICAL—FLANGED

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
$\frac{1}{2}$	4.00	$1\frac{1}{4}$	8.00	$2\frac{1}{2}$	23.00
$\frac{3}{4}$	5.00	$1\frac{1}{2}$	10.00	3	32.00
1	6.00	2	15.00	...	.....

#### EXTRA HEAVY PATTERN FOR 300 POUNDS PRESSURE HORIZONTAL OR ANGLE

Size In.	PRICE, EACH		Size In.	PRICE, EACH	
	Screwed	Flanged		Screwed	Flanged
$\frac{1}{2}$	3.00	5.00	$1\frac{1}{2}$	7.75	14.25
$\frac{3}{4}$	3.50	6.50	2	11.50	20.00
1	4.50	8.50	$2\frac{1}{2}$	21.00	31.00
$1\frac{1}{4}$	5.50	10.50	3	30.00	42.00

### SWING CHECK VALVES

#### STANDARD PATTERN

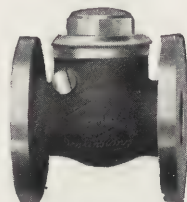
FOR 150 POUNDS PRESSURE

#### SCREWED



J-5050

#### FLANGED



J-5052

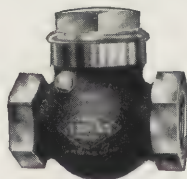
#### SCREWED

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
$\frac{1}{4}$	1.20	1	2.60	$2\frac{1}{2}$	14.00
$\frac{3}{8}$	1.20	$1\frac{1}{4}$	3.60	3	21.00
$\frac{1}{2}$	1.30	$1\frac{1}{2}$	5.00	...	.....
$\frac{3}{4}$	1.90	2	7.50	...	.....

#### FLANGED

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
$\frac{1}{2}$	4.00	$1\frac{1}{4}$	8.00	$2\frac{1}{2}$	23.00
$\frac{3}{4}$	5.00	$1\frac{1}{2}$	10.00	3	32.00
1	6.00	2	15.00	...	.....

#### EXTRA HEAVY PATTERN FOR 300 POUNDS PRESSURE



J-5054

Can be used in either horizontal or vertical position.

Size In.	PRICE, EACH		Size In.	PRICE, EACH	
	Screwed	Flanged		Screwed	Flanged
$\frac{1}{2}$	3.00	5.00	$1\frac{1}{2}$	7.75	14.25
$\frac{3}{4}$	3.50	6.50	2	11.50	20.00
1	4.50	8.50	$2\frac{1}{2}$	21.00	31.00
$1\frac{1}{4}$	5.50	10.50	3	30.00	42.00

## FAIRBANKS BRONZE GLOBE AND ANGLE VALVES

### RENEWABLE VULCABESTON RING DISC, FOLLOWER GLAND

300 Pounds Hydraulic Test Pressure

150 Pounds Steam Working Pressure, 175 Pounds Water Working Pressure

#### SCREWED VALVES

GLOBE

ANGLE



J-5056



J-5058

Fairbanks Bronze Globe and Angle Valves have a raised round seat upon which scale, grit or other sediment is not liable to lodge.

The seat is preserved from injury by the use of a comparatively soft ring in the renewable disc.

The quickness of renewals is made possible by the ease with which the disc may be removed from the end of the spindle, without the manipulation of nuts, screws, pins, wires, or anything liable to become detached while the valve is in use.

The disc is guided centrally to its seat, without danger of binding, by splines cast in the body of the valve.

#### FLANGED VALVES

GLOBE

ANGLE



J-5060



J-5062

The ring is composed of asbestos fiber to which a waterproof vulcanizing material is added by a patented process, making a composition which will neither crack nor flake off. It is held securely in position by the metal edges of the disc holder which are spun over its inner and outer diameters.

To renew: Simply unscrew and remove the bonnet of the valve, slip the old disc from the end of spindle and substitute a new one. The whole operation requires but a few moments and no skill and does not necessitate the removal of the valve body from the pipe line.

Size Inches	Globe End to End Inches	Angle Center to End Inches	Price Each
1/8	1 9/16	...	1.10
1/4	1 13/16	1 5/16	1.10
3/8	2 1/16	1	1.25
1/2	2 3/4	1 1/2	1.60
3/4	3 3/16	1 1/2	2.20
1	3 11/16	1 13/16	2.80
1 1/4	4 3/16	2 3/16	4.00
1 1/2	4 3/4	2 3/8	5.50
2	5 7/8	2 13/16	8.75
2 1/2	6 7/16	3 3/16	15.75
3	7 1/4	4	22.00

Size Inches	Diam. of Flanges Inches	Globe Face to Face Inches	Angle Center to Face Inches	Price Each
1/2	3	2 7/8	2 1/4	4.00
3/4	3 1/2	3 1/4	2 5/8	5.00
1	4	3 3/8	3	6.00
1 1/4	4 1/2	4 3/8	3 1/4	9.00
1 1/2	5	4 3/16	3 3/8	11.00
2	6	6	4 1/16	16.50
2 1/2	7	6 7/16	4 9/16	25.00
3	7 1/2	7 1/16	5 1/16	34.00

## FAIRBANKS VALVE REPAIRS

### SPECIAL BRASS GLOBE VALVE DISC HOLDERS

With Renewable Vulcabeston Ring



J-5064

This disc holder has been designed to meet special requirements. By unscrewing the holding plate, the old ring may be easily removed from the shell and a new vulcabeston ring or one of other material substituted. Ordinarily furnished with vulcabeston rings, but can supply discs of this pattern with rings of copper, leather, fiber or of any material specified and designed for special service.

This holder features, in combination, the advantages of being a separate part complete in itself; the simple and efficient method employed for attaching it to or removing it from the end of the valve spindle, and the device which permits the interchangeability of disc rings.

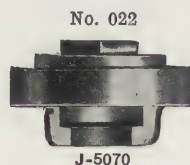
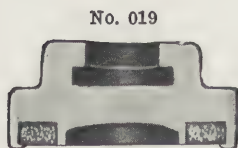
Size.....	inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, Brass Disc Holder.....	each	.10	.12	.15	.22	.40	.70	1.15	1.40
"    "    Nut.....	"	.02	.03	.05	.06	.09	.12	.30	.50
"    Vulcabeston Ring.....	"	.05	.06	.07	.09	.11	.13	.23	.26

### PARTS FOR BRASS GLOBE AND ANGLE VALVES

#### Vulcabeston Ring Disc Pattern

Size.....	inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, Body.....	each	.56	.65	.75	1.00	1.25	2.00	2.60	4.50	8.75	14.00
"    Hub.....	"	.16	.22	.48	.68	.96	1.14	1.45	2.25	3.35	4.60
"    Spindle.....	"	...	.11	.20	.26	.35	.46	.63	.92	1.45	1.60
"    Packing Nut.....	"	.08	.08	.15	.20	.27	.27	.38	.45	.73	.73
"    Follower.....	"	...	...	.04	.06	.08	.09	.13	.15	.20	.20
"    Handwheel.....	"	.04	.04	.04	.05	.07	.08	.13	.16	.40	.48
"    Wheel Nut.....	per 100	.50	.50	.50	1.00	1.00	1.25	1.25	1.75	1.75	1.75
"    Trimmings Complete.....	each	.66	.77	1.28	1.71	2.30	2.75	3.70	5.25	8.30	10.80
"    Unions.....	"	...	...	.50	.63	.90	1.25	1.85	3.50	...	...
"    Union Nuts.....	"	...	...	.25	.30	.40	.55	.85	1.65	...	...
"    "    Nipples.....	"	...	...	.25	.33	.50	.70	1.00	1.85	...	...

### DISCS



Size.....	inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, No. 019 Vulcabeston Ring, Brass Holder.....	each	.14	.14	.08	.10	.13	.17	.24	.32	.48	.80	1.10
"    "    021 Brass Holder with Special Metal.....	"	...	...	.12	.16	.20	.30	.40	.60	1.10	1.65	...
"    "    022, Brass Holder with Nut and Washer, Vulcabeston Ring.....	each	...	...	.15	.20	.25	.35	.50	.90	1.60	2.00	...

Prices of  $\frac{1}{8}$  and  $\frac{1}{4}$  inch include spindles, as disc holder and spindles are one piece. We can furnish No. 022 with any special ring, such as copper, rubber, fiber or other suitable material. Prices upon application.

## FAIRBANKS BRASS STRAIGHTWAY AND ANGLE SWING CHECK VALVES

300 Pounds Hydraulic Test Pressure  
150 Pounds Steam Working Pressure, 175 Pounds Water Working Pressure

**HORIZONTAL  
SCREWED**



J-5072

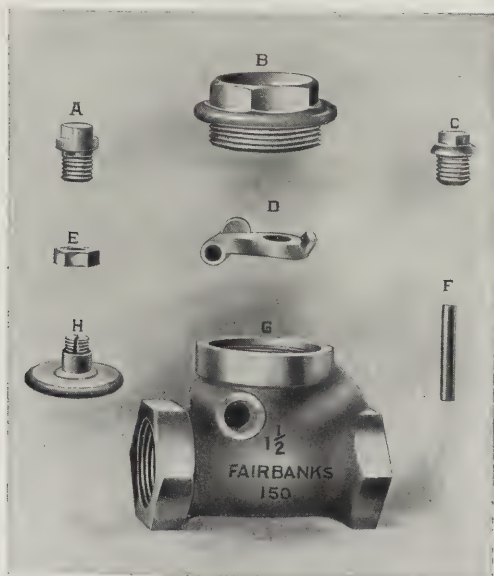
ANGLE  
SCREWED



J-5074

3-5012		3-5014				
Size .....	inches	1/4	3/8	1/2	3/4	1
End to End, Horizontal, Screwed .....	"	2 1/16	2 1/32	2 1/2	2 5/16	3 3/8
Center to End, Inlet or Outlet, Angle, Screwed .....	"			1 3/8	1 1/2	1 11/16
Price, Horizontal, Screwed .....	each	2.50	2.50	2.75	3.10	4.00
" Angle, Screwed .....	"	2.50	2.50	2.75	3.10	4.00
<hr/>						
Size .....	inches	1 1/4	1 1/2	2	2 1/2	3
End to End, Horizontal, Screwed .....	"	3 3/16	4 1/4	5 1/8	6 1/8	7 3/8
Center to End, Inlet or Outlet, Angle, Screwed .....	"	1 7/8	2 1/8	2 3/4	3 5/16	3 3/4
Price, Horizontal, Screwed .....	each	5.50	7.00	10.00	19.00	27.00
" Angle, Screwed .....	"	5.50	7.00	10.00	19.00	27.00

## PARTS



J-5076

A—side plug, B—cap, C—angle plug, D—arm, E—disc stem nut, F—hinge pin,  
G—body, H—disc.

In ordering parts, specify them by reference both to the names and to the descriptive letters.



## FAIRBANKS BRASS STRAIGHTWAY AND ANGLE SWING CHECK VALVES

### BRASS DISC



J-5078

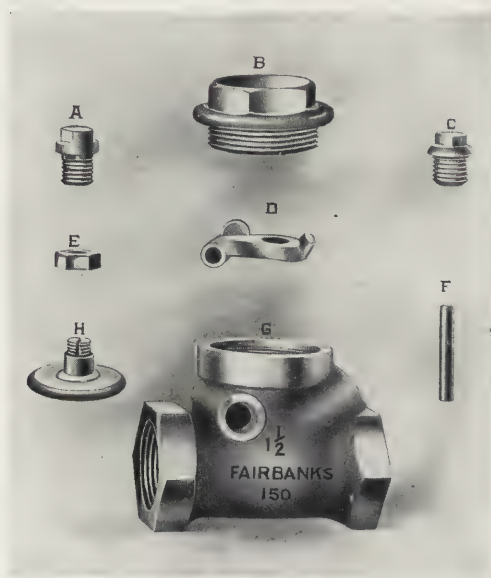


J-5080

These straightway swing check valves, with patented rotating disc, work freely never sticking on the seat. They have full area, equal to pipe connections, and straightway passage; are thoroughly tested and reliable.

The valve is easily reground by removing angle plug (shown in illustration), inserting a screwdriver into slot in disc head and revolving it sufficiently to reseal it, without disconnecting from the pipe.

### PARTS



J-5082

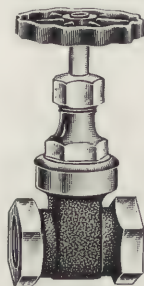
A—Side Plug  
B—Cap  
C—Angle Plug  
D—Arm

E—Disc Stem Nut  
F—Hinge Pin  
G—Body  
H—Disc

In ordering parts, specify them by reference both to the names and to the descriptive letters.

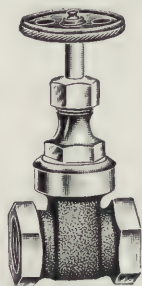
## STANDARD BRASS GATE VALVES

WITH IRON WHEEL



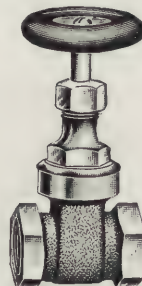
J-5084

WITH BRASS WHEEL



J-5086

WITH WOOD WHEEL



J-5088

### SCREWED—WITH IRON WHEEL

Size .....	inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$
Price.....	each	1.45	1.45	1.65	2.05	2.80	3.70	5.00
Size.....	inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	*4	*5	*6
Price.....	each	7.30	13.00	19.00	43.00	58.00	110.00	165.00

### FLANGED—WITH IRON WHEEL

Size.....	inches	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	*4	*5	*6
Diameter of Flanges.....	inches	6	7	$7\frac{1}{2}$	$8\frac{1}{2}$	9	10	11
Face to Face.....	"	$5\frac{1}{16}$	6	$6\frac{5}{16}$	$6\frac{1}{4}$	7	$9\frac{1}{4}$	$10\frac{3}{4}$
Price.....	each	25.00	33.00	39.00	68.00	83.00	135.00	190.00

\*NOTE.— $3\frac{1}{2}$  to 6-inch valves have flanged bonnet, non-rising stem and are made to order only.

### SCREWED—WITH FINISHED BRASS WHEEL

Size .....	inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, Rough Body, Plain.....	each	2.90	3.30	4.65	5.85	7.60	10.60	16.70	24.30
" " Finished All Over.....	"	4.15	4.80	6.35	8.10	10.60	15.60	24.00	35.00
" " and Nickel-plated All Over. "	"	4.60	5.30	6.95	8.80	11.40	16.50	25.25	36.75

### SCREWED—WITH WOOD WHEEL

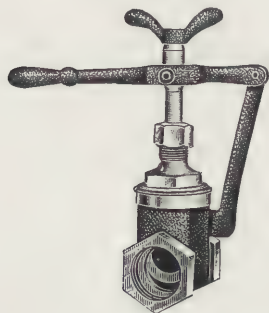
Size .....	inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, Rough Body, Plain.....	each	2.00	2.55	3.40	4.50	6.00	8.90
" " Nickel-plated All Over. "	"	2.40	3.00	3.85	5.00	6.60	9.65
" " Finished All Over.....	"	3.30	4.00	5.10	6.75	9.00	13.90
" " and Nickel-plated All Over. "	"	3.70	4.50	5.60	7.35	9.70	14.80

### SCREWED—WITH WOOD WHEEL AND UNION

Size .....	inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price, Rough Body, Plain.....	each	3.20	3.75	4.65	6.00	8.25	11.90
" " " Nickel-plated All Over. "	"	3.65	4.25	5.20	6.60	9.00	12.80

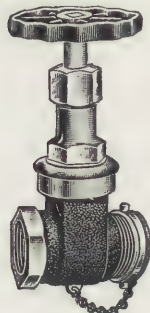
## BRASS GATE VALVES

QUICK-OPENING



J-5128

HOSE



J-5130

SERVICE  
GATE

J-5132

## QUICK-OPENING—SCREWED

Size.....inches	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price.....each	3.60	4.80	6.20	8.50	11.80	20.25	30.00

## HOSE, WITH IRON WHEEL

Size.....inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, Rough Body, without Cap and Chain...each	3.35	4.70	6.25	9.00	15.00	22.00
“ “ “ with Cap and Chain ... “	5.10	6.70	8.85	12.60	20.00	29.50

## HOSE, WITH FINISHED BRASS WHEEL

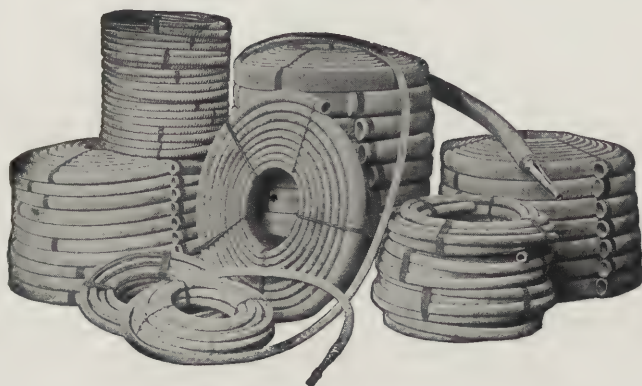
Size.....inches	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Price, Finished, without Cap or Chain.....each	6.90	9.10	11.85	17.30	26.00	38.00
“ “ “ with Cap and Chain..... “	8.65	11.10	14.45	20.90	31.00	45.50
“ “ “ and Nickel-plated, without Cap and Chain..... “	7.50	9.80	12.65	18.30	27.25	39.75
“ “ “ Finished and Nickel-plated with Cap and Chain..... “	9.25	11.80	15.25	21.90	32.25	47.25

Hose valves have standard iron pipe thread on female end and hose thread on male end. When ordering, send sample hose thread.

## SERVICE GATES

Size.....inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2
Price.....each	1.65	2.00	2.75	4.00	6.00	8.50

# HOSE



J-5134

## WATER CONDUCTING HOSE

Two-ply hose, designed to conduct water under moderate pressure only. Sizes above 3-inch are mainly for tank hose; 3-ply hose, of medium strength, suitable for hydrants, garden and pump uses, street sprinkling, washing decks, etc.

Four-ply hose, recommended for all purposes where a particularly strong and reliable article is required.

Five and 6-ply hose, for use where great resistance to pressure or very severe service is required.

Internal Diam.....inches	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4
Price, 2-ply.....per foot	.20	.25	.33	.42	.50	.58	.66	.75	.83	.92
" 3 "....."	.25	.30	.40	.50	.60	.70	.80	.90	1.00	1.10
" 4 "....."	.30	.37	.50	.62	.75	.87	1.00	1.12	1.25	1.37
" 5 "....."	.37	.46	.62	.77	.93	1.08	1.25	1.40	1.56	1.71
" 6 "....."	.45	.55	.75	.93	1.12	1.30	1.50	1.68	1.87	2.05
Internal Diam.....inches	3	3 1/2	4	5	6	7	8	9	10	....
Price, 2-ply.....per foot	.99	1.16	1.32	1.65	1.98	2.31	2.64	2.97	3.33	....
" 3 "....."	1.20	1.40	1.60	2.00	2.40	2.80	3.20	3.60	4.00	....
" 4 "....."	1.50	1.75	2.00	2.50	3.00	3.50	4.00	4.50	5.00	....
" 5 "....."	1.87	2.18	2.50	3.13	3.75	4.38	5.00	5.63	6.25	....
" 6 "....."	2.25	2.62	3.00	3.75	4.50	5.25	6.00	6.75	7.50	....

All intermediate sizes charged at the list price of the next larger size, thus: 1 1/8-inch. is charged at 1 1/4-inch price, etc. Furnished regularly in 25 and 50-foot lengths.

## STEAM HOSE

Internal Diam.....inches	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
Price, 3-ply.....per foot	.47	.57	.70	.85	1.02	1.18	1.34	1.50	1.66
" 4 "....."	.56	.71	.87	1.04	1.25	1.45	1.66	1.87	2.08
" 5 "....."	.70	.87	1.07	1.30	1.56	1.81	2.07	2.33	2.60
" 6 "....."	.84	1.05	1.28	1.56	1.87	2.17	2.49	2.80	3.12
" 7 "....."	.98	1.23	1.50	1.82	2.18	2.53	2.90	3.27	3.64
" 8 "....."	1.12	1.41	1.70	2.08	2.50	2.90	3.32	3.74	4.16

When ordering, state steam pressure used.

NOTE.—The list on steam hose applies to brewer's, air brake, car heating and air drill hose also.



## SHERMAN HOSE CLAMPS

**REGULAR  
HOSE CLAMP**



**J-5136**

**DOUBLE BOLT  
SUCTION CLAMP**



**J-5138**

**SHEET STEEL  
SUCTION CLAMP**



**J-5140**

The many brands of hose, with their walls varying in thickness, and the different plies, render it necessary to select the proper size of clamp. For example: A  $\frac{3}{4}$ -inch 3-ply clamp will not draw up enough on a  $\frac{3}{4}$ -inch 2-ply rubber hose, or on a cotton hose. It costs no more to buy an assortment rather than a quantity of the size most used.

### LAWN AND WATER HOSE CLAMPS

Size, Hose..inches	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	1
Hose.....ply	3	2	3	2	3	4	2	3	4	2
Price... per dozen	.60	.60	.60	.60	.60	.60	.60	.60	.60	2.00
Size, Hose..inches	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{1}{2}$	2	$2\frac{1}{4}$	$2\frac{1}{2}$	3
Hose.....ply	3	4	3	4	3	4	3-4	3-4	3-4	3-4
Price... per dozen	2.00	2.00	2.50	2.50	3.00	3.00	4.00	6.50	7.00	10.00

### STEAM HOSE CLAMPS

Size.....inches	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$	$1\frac{1}{4}$
Hose.....ply	3	4	3	4	3	4
Inside Diameter, Clamp Open .....inches	$1\frac{1}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$1\frac{3}{2}$	$1\frac{5}{8}$	$1\frac{3}{2}$
Price.....per dozen	2.00	2.00	2.50	2.50	3.00	3.00
Size.....inches	$1\frac{1}{2}$	$1\frac{1}{2}$	2	2	$2\frac{1}{2}$	$2\frac{1}{2}$
Hose.....ply	3-4	5	3-4	5	3-4	5
Inside Diameter, Clamp Open .....inches	$2\frac{7}{8}$	$2\frac{1}{2}$	$2\frac{1}{8}$	$2\frac{7}{8}$	$3\frac{1}{4}$	$3\frac{5}{8}$
Price.....per dozen	3.50	4.00	5.50	6.50	8.50	9.50

### DOUBLE BOLT CLAMPS

Made from extra heavy gauge sheet brass, in two pieces, with extra long tongues. Bolts have hexagon heads to use with ordinary wrench.

*Size.....inches	4	$4\frac{1}{4}$	$4\frac{1}{2}$	$4\frac{3}{4}$	5	$5\frac{1}{4}$	$5\frac{1}{2}$	$5\frac{3}{4}$	6	$6\frac{1}{4}$	$6\frac{1}{2}$	$6\frac{3}{4}$	7
Price... per dozen	11.25	13.75	15.25	16.75	18.25	19.75	21.25	22.75	24.25	26.00	28.00	30.00	32.00
*Size.....inches	$7\frac{1}{4}$	$7\frac{1}{2}$	$7\frac{3}{4}$	8	$8\frac{1}{4}$	$8\frac{1}{2}$	$8\frac{3}{4}$	9	$9\frac{1}{4}$	$9\frac{1}{2}$	$9\frac{3}{4}$	10	....
Price... per dozen	34.00	36.00	38.00	40.00	42.00	44.00	46.00	48.00	50.00	52.00	54.00	56.00	....

\*Measurement of inside diameter.

### SHEET STEEL SUCTION CLAMPS

Galvanized. Made in one size only, for 2-inch Agricultural Suction Hose, adjustable to fit hose with straight or enlarged ends. Prices on application.

## HOSE COUPLINGS AND MENDERS

### SPUN BRASS GARDEN HOSE COUPLINGS



J-5142

Made in spun brass with long tail piece, heavy swivel, deep bowl and perfect hose thread.

Size Inches	Price per Dozen	Size Inches	Price per Dozen
1/2	6.48	3/4	6.48
5/8	6.48	..	....

### CAST BRASS GARDEN HOSE COUPLINGS



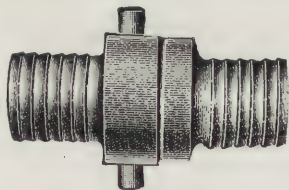
J-5144

Hose or iron pipe thread.

Size Inches	PRICE, PER DOZEN		
	HALF COUPLINGS		
	Full Sets	Female End	Male End
1/2	2.40	1.80	1.20
5/8	2.40	1.80	1.20
3/4	2.40	1.80	1.20
*1	4.40	2.93	2.20

\*Iron pipe thread only.

### WATER HOSE COUPLINGS



J-5146

Hose or iron pipe thread.

Size In.	PRICE, PER DOZEN		
	HALF COUPLINGS		
	Full Sets	Female End	Male End
1 1/4	10.00	6.67	5.00
1 1/2	14.00	9.33	7.00
2	24.00	16.00	12.00
2 1/2	48.00	32.00	24.00
3	75.00	50.00	37.50

### STEAM HOSE COUPLINGS

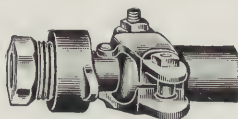


J-5148

Iron pipe thread.

Size In.	PRICE, PER DOZEN		
	HALF COUPLINGS		
	Full Sets	Female End	Male End
1/4	15.00	10.00	7.50
3/8	15.00	10.00	7.50
1/2	15.00	10.00	7.50
3/4	15.00	10.00	7.50
1	18.00	12.00	9.00
1 1/4	24.00	16.00	12.00
1 1/2	30.00	20.00	15.00
2	42.00	28.00	21.00
2 1/2	72.00	48.00	36.00

### ROCK DRILL COUPLINGS



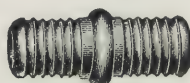
J-5150

Size..	.....inches	3/4	1
Price .....	.....each	....	....

### HOSE MENDERS

Iron

Brass



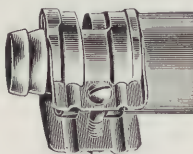
J-5152



J-5154

Size.....inches	1/2	5/8	3/4	1
Price, Iron..per doz.	.....	.....	.....	.....
" Brass.. "	.....	.....	.....	.....

### SPECIAL MENDER CLAMPS



J-5156

Size.....inches	1/2	5/8	3/4
Price.....per doz.	.....	.....	.....

## HOSE FITTINGS

### HOSE NIPLES



Male

J-5158

PRICE, PER DOZ.

Size Inches	Male	Male and Female
1/2	3.50	3.50
3/4	3.50	3.50
1	5.00	5.00
1 1/4	9.00	9.00
1 1/2	10.00	10.00

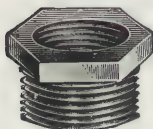
Male and  
Female

J-5160

PRICE, PER DOZ.

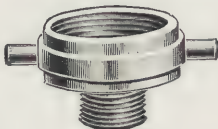
Size Inches	Male	Male and Female
2	14.00	14.00
2 1/2	28.00	28.00
3	40.00	40.00
3 1/2	50.00	50.00
4	75.00	75.00

### HOSE BUSHINGS

Hose  
Bushing

J-5162

Size Inches	Price per Dozen
1 x 1/2	5.50
1 x 3/4	6.50
1 1/4 x 3/4	8.00
1 1/4 x 1	10.00
1 1/2 x 3/4	11.50
1 1/2 x 1	11.50
1 1/2 x 1 1/4	12.00
2 x 3/4	13.00
2 x 1	14.00

Hose  
Reducer

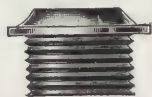
J-5164

Size Inches	Price per Dozen
2 x 1 1/4	16.00
2 x 1 1/2	18.00
2 1/2 x 3/4	20.00
2 1/2 x 1	22.00
2 1/2 x 1 1/4	23.00
2 1/2 x 1 1/2	24.00
2 1/2 x 2	26.00
3 x 2	30.00
3 x 2 1/2	36.00

### HOSE REDUCERS

Size Inches	Price per Dozen	Size Inches	Price per Dozen
1 x 1/2	5.50	2 x 1 1/4	16.00
1 x 3/4	6.50	2 x 1 1/2	18.00
1 1/4 x 3/4	8.00	2 1/2 x 3/4	20.00
1 1/4 x 1	10.00	2 1/2 x 1	22.00
1 1/2 x 3/4	11.50	2 1/2 x 1 1/4	23.00
1 1/2 x 1	11.50	2 1/2 x 1 1/2	24.00
1 1/2 x 1 1/4	12.00	2 1/2 x 2	26.00
2 x 3/4	13.00	3 x 2	30.00
2 x 1	14.00	3 x 2 1/2	36.00

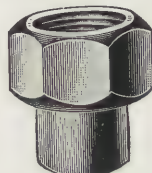
### HOSE BIBB ENDS



J-5166

Size Inches	Price per Dozen	Size Inches	Price per Dozen
1/2	3.00	1 1/4	9.00
3/4	3.60	1 1/2	12.00
1	6.00	..	.....

### GOOSENECK SCREWS



J-5168

Size.....inches	3/4
Price.....per dozen	5.00

### SPRINKLERS



J-5170

Size Face Inches	PRICE, PER DOZEN	
	Fin. Br.	Nickel-plated
1 1/2	5.00	7.00
1 3/4	5.50	7.50
2	6.00	8.00
2 1/4	6.50	8.50
2 1/2	7.00	9.00
3	7.50	9.50

Threaded 3/8-inch iron pipe.

### HOSE SPANNERS

#### MALLEABLE IRON



J-5172

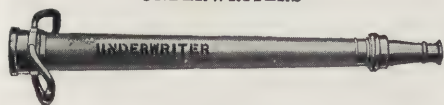
Size Inches	Price Each	Size Inches	Price Each
1 1/4	.12	2	.20
1 1/2	.15	2 1/2	.25



## HOSE PIPES, ETC.

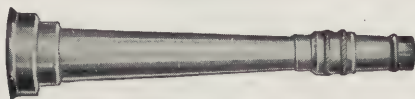
### HOSE PIPES

**UNDERWRITERS'**



J-5174

**SCREW TIP**



J-5176

### UNDERWRITERS' AND SWIVEL HANDLE

Size.....	inches	1½	2	2½	2½	2½
Length.....	"	19	20	24	30	36
Price, Wound and Painted.....	each	8.00	9.00	11.00	12.00	15.00
" Plain Brass.....	"	7.00	7.50	9.50	11.00	13.50
" Rubber Tube, Swivel Handle.....	"	.....	.....	.....	22.00	25.00
" Leather.....	"	.....	.....	.....	.....	18.00

### SCREW TIP—HOSE OR PIPE THREAD

Size.....	inches	¾	¾	¾	1	1	1¼	1¼	1½	1½
Length.....	"	6	7½	12	8½	12½	12	15	12	13
Price.....	per dozen	7.00	8.00	10.00	10.00	12.00	20.00	24.00	24.00	25.00
Size.....	inches	1½	1½	2	2	2	2½	2½	2½	2½
Length.....	"	15	19	12	15	20	15	20	24	30
Price.....	per dozen	30.00	40.00	38.00	45.00	50.00	75.00	96.00	100.00	144.00

**PLAIN**



J-5178

**WITH COCK**



J-5180

### PLAIN—HOSE OR PIPE THREAD

Size.....	inches	¾	¾	1	1	1¼	1¼	1½
Length.....	"	3	6	4	8	4¾	10	5¾
Price.....	per dozen	4.00	7.00	5.00	9.50	12.00	15.00	18.00
Size.....	inches	1½	2	2	2½	2½	2½	2½
Length.....	"	12	6¾	12	7½	12	15	18
Price.....	per dozen	22.00	26.00	34.00	37.40	55.00	65.00	80.00

### WITH COCK—HOSE OR PIPE THREAD

Size.....	inches	¾	¾	¾	1	1	1¼	1¼	1½	1½
Length.....	"	6	8	12	8	12	12	15	12	15
Price.....	per dozen	11.00	13.00	18.00	15.00	20.00	40.00	50.00	55.00	65.00
Size.....	inches	2	2	2	2½	2½	2½	2½	2½	2½
Length.....	"	12	20	25	12	15	20	24	30	36
Price.....	per dozen	80.00	110.00	130.00	145.00	155.00	160.00	175.00	195.00	215.00



J-5182

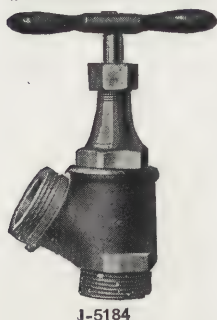
### GARDEN HOSE NOZZLES

Size.....	inches	¾	1
Price.....	per dozen	.....	...

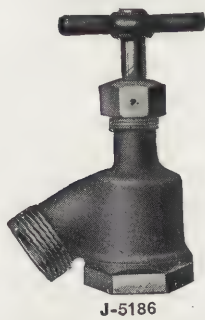


## BRASS HOSE VALVES

STANDARD PATTERN



J-5184

GARDEN HOSE VALVES  
ANGLE OPENING

J-5186

STRAIGHT OPENING



J-5188

Standard pattern valves have more clearance than the garden hose valves. The hose end of these valves in sizes from 1 to 2 inches, inclusive, are all fitted with the Chicago Standard hose thread. The 2½-inch is fitted with the Chicago Fire Department hose thread. If a different thread is required it will be necessary to send us a sample thread, preferably the male end of a hose coupling. An extra charge will be made for special hose thread other than those specified. When so ordered we will furnish these valves with iron pipe thread, both ends, at regular prices.

### No. 50 STANDARD PATTERN

#### IRON HANDLE, LOOSE SWIVEL AND LEATHER DISC

Size.....inches	1	1¼	1½	2	2½
Price, Rough Body, Plain.....each	3.15	3.70	4.75	7.00	8.50
“ “ “ Nickel-plated All Over.. “	3.65	4.30	5.50	8.00	9.75

### No. 52 STANDARD PATTERN

#### FINISHED BRASS WHEEL, LOOSE SWIVEL AND LEATHER DISC

Size.....inches	1½	2	2½
Price, Finished All Over.....each	9.00	11.50	14.50
“ “ and Nickel-plated All Over..... “	10.00	12.75	16.00

No. 52 valves are made to order only.

### GARDEN HOSE VALVES

#### ANGLE OPENING

Size.....inches	½	¾	1	1¼	1½	2	2½
Price.....each	1.65	1.65	2.20	3.40	4.75	7.00	15.00

### GARDEN HOSE VALVES

#### STRAIGHT OPENING

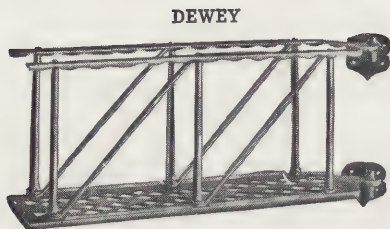
Size.....inches	½	¾	1	1¼	1½	2	2½
Price.....each	1.65	1.65	2.20	3.40	4.75	7.00	15.00

Garden hose valves will be furnished with Chicago hose thread, California hose thread, or iron pipe thread at regular prices. Any other style thread will be extra. In ordering always specify the thread required.

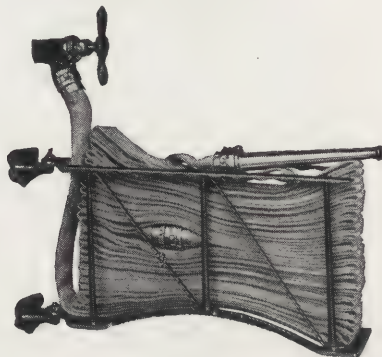
Where pipe clamps are specified, Style F, they are furnished up to and including 4 inch, without charge. For larger sizes there is a net extra charge per rack as follows: Iron—4½ inch, 40 cents; 5 inch, 50 cents; 6 inch, 60 cents; 7 inch, 65 cents; 8 inch, 90 cents. Brass—4½ inch, 90 cents, 5 inch, 1.10; 6 inch, 1.20; 7 inch, 1.50; 8 inch, 1.80.

## SWINGING HOSE RACKS

HARTFORD



J-5196



J-5198

The Dewey Rack is especially recommended for warehouses and manufacturing plants. The hose is folded flat, and as the rack is usually suspended about 6 feet from the floor, the hose is protected from damage and yet is instantly available in case of emergency. It is approved by the Associated Factory Mutual Insurance Companies.

The Hartford Rack is similar to the Dewey Rack, but it is made with an arched bedplate. The advantage of this is that the hose lies better on a rack with an arched bottom, as the arch supports the weight of the hose and relieves the folded ends of any pressure. The top of the hose so folded will be level and not concave. The Underwriters approve a hose rack with an arched bedplate.

Dewey Racks Number	Hartford Racks Number	Size Hose Inches	Capacity Feet	Kind of Hose		Price Each
7	17	1 or 1 1/4	50	Unlined Linen		5.00
8	18	1 1/2	50	"	"	5.00
9	19	2	50	"	"	5.00
10	20	2 1/2	50	"	"	5.00
7A	17A	1 or 1 1/4	75	"	"	5.50
8A	18A	1 1/2	75	"	"	5.50
9A	19A	2	75	"	"	5.50
10A	20A	2 1/2	75	"	"	5.50
10B	21A	1 or 1 1/4	100	"	"	6.00
11	21	1 1/2 or 2	100	"	"	6.00
12	22	2 1/2	100	"	"	6.00
13	23	1 1/2 or 2	150	"	"	7.00
14	24	2 1/2	150	"	"	7.00
13	23	1 1/2 or 2	50	Rubber Lined Cotton Mill		7.00
14	24	2 1/2	50	"	"	7.00
15	25	1 1/2 or 2	100	"	"	7.50
16	26	2 1/2	100	"	"	8.00

List prices include pipe clamps up to and including 4 inch size. For larger size pipe clamps there is a net extra charge per rack as follows:

Size.....inches	5	6	7	8
Price, Iron.....each	1.80	1.00	1.30	1.80
" Brass....."	1.80	2.20	3.00	3.90

Both the Dewey and the Hartford Racks are packed knocked down in individual wooden boxes for convenience. Stock finish is red enamel, baked on. Nos. 15, 16, 25 and 26 will carry heavy rubber-lined cotton hose in 50-foot lengths.

Both racks are furnished with clamps or wall brackets. In ordering, state which attachment is desired, and if any pipe clamps, give the size of the standpipe.

## LAWN SPRINKLERS

### PLUVIUS



J-5200

The Pluvius is ball-bearing, revolving with the slightest pressure, and covers a large or small circle, according to the water pressure. It has a movable brass swivel at the base for making connection with the hose.

With three brass arms.

Height, 11 inches.

Price.....per dozen **24.00**

### PRESTON



J-5202

A reliable, satisfactory sprinkler which is becoming very popular.

Has three brass arms.

Height, 8 inches.

Price.....per dozen **28.00**

### BUSY



J-5204

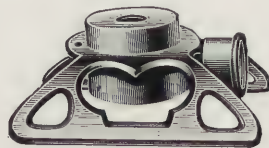
The Busy is a low base sprinkler which, under 35 pounds pressure, will cover a circle 30 feet in diameter. Is a cheap sprinkler, quite efficient and popular.

Galvanized top, enameled iron base

Height, 5½ inches.

Price.....per dozen **12.00**

### EVANSTON



J-5206

The Evanston Sprinkler is built on the well-known principle of the tangential spray. Has no revolving parts to wear out. Japanned.

Height, 2¼ inches.

Price.....per dozen **8.40**

### C. B. G.



J-5208

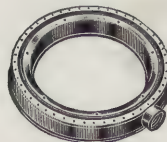
The C. B. G. (cheap but good) is a low priced sprinkler, made on the general order of the Evanston, but somewhat smaller and with a less expensive finish.

Japanned.

Height, 1½ inches.

Price.....per dozen **6.00**

### RING



J-5210

This ring sprinkler is the best of its class. The perforations in the top are arranged to distribute water in the most thorough and effective manner.

The ring is of stamped sheet brass.

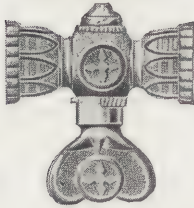
Diameter, 8 inches.

Price.....per dozen **11.00**



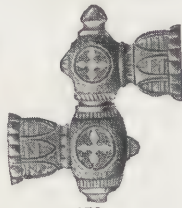
## STANDARD GAS FIXTURE FITTINGS

STOP COCK



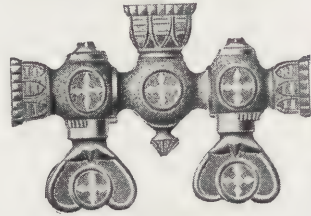
J-5250

TOP SWING



J-5252

TWO-LIGHT PENDANT COCK



J-5262

SIDE NOZZLE



J-5264

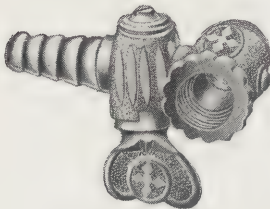
### STOP COCKS

Size...inches	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$
Price per doz.	3.90	4.25	4.55	4.55
Size...inches	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{1}{2}$	.....
Price per doz.	4.55	4.90	6.00	.....

### TOP SWINGS

Size.....inches	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Price.....per dozen	5.20	5.55	6.20

### INDEPENDENT COCK



J-5254

STRAIGHT NOZZLE



J-5256

### INDEPENDENT COCKS

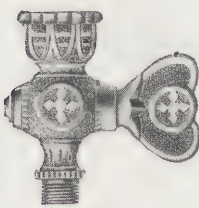
Size...inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per doz.	5.50	6.00	6.50	8.00

### STRAIGHT NOZZLES

Size...inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per doz.	1.00	1.65	1.95	3.00

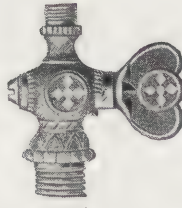
### PILLAR COCKS

FEMALE



J-5258

MALE



J-5260

### FEMALE PILLAR COCKS

Size...inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per doz.	3.90	4.25	4.55	5.25

### MALE PILLAR COCKS

Size...inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per doz.	4.90	5.20	5.55	6.25

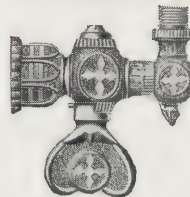
### TWO-LIGHT PENDANT COCKS

Size...inches	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{1}{8}$
Price per doz.	8.45	8.45	9.10	9.10
Size...inches	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$	$\frac{1}{2} \times \frac{3}{8}$	.....
Price per doz.	9.10	10.20	10.60	.....

### SIDE NOZZLES

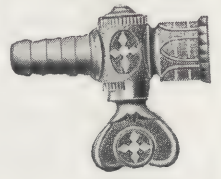
Size...inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per doz.	1.00	1.65	2.30	3.50

### ELL BURNER COCK



J-5266

HOSE COCK



J-5268

### ELL BURNER COCKS

Size...inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per doz.	4.25	4.55	5.20	6.20

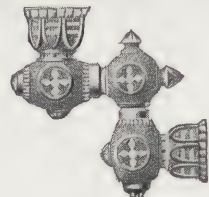
### FEMALE HOSE COCKS

Size...in.	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{3}{4}$
Price, per doz.	4.25	4.55	4.90	5.20	8.00

### MALE HOSE COCKS

Size...inches	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$
Price per doz.	4.55	4.90	5.20	5.55

### UNIVERSAL SWINGS



J-5270

Size.....inches	$\frac{1}{8} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{8}$	$\frac{1}{4} \times \frac{1}{4}$
Price.....per dozen	7.80	8.15	8.45
Size.....inches	$\frac{3}{8} \times \frac{1}{8}$	$\frac{3}{8} \times \frac{1}{4}$	$\frac{3}{8} \times \frac{3}{8}$
Price.....per dozen	8.80	8.80	9.10

## GAS FIXTURE FITTINGS

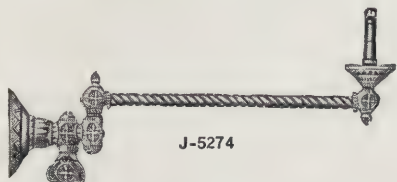
### BRACKETS STIFF BRACKETS



J-5272

Price, 6 Inches.....each .70

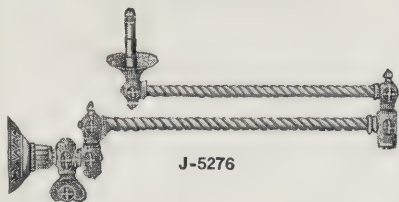
### ONE-SWING BRACKETS



J-5274

Price.....each 1.00

### TWO-SWING BRACKETS



J-5276

Price.....each 1.60

### THREE-SWING BRACKETS



J-5278

Price.....each 1.10

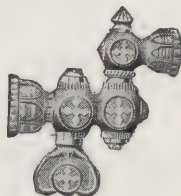


J-5280

### MONITOR HEATERS

Number.....	1
Heaters....per doz.	3.00
Stands....."	3.00
Number.....	2
Heaters....per doz.	4.50
Stands....."	6.00
Number.....	3
Heaters....per doz.	6.00
Stands....."	8.00

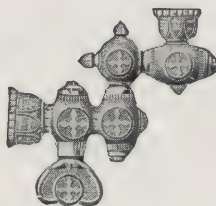
### BRACKET SWING COCKS



J-5282

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
$\frac{1}{8} \times \frac{1}{8}$	7.80	....	$\frac{3}{8} \times \frac{1}{8}$	8.15	11.70
$\frac{1}{4} \times \frac{1}{8}$	7.80	....	$\frac{3}{8} \times \frac{1}{4}$	8.45	11.70
$\frac{1}{4} \times \frac{1}{4}$	8.15	....	$\frac{3}{8} \times \frac{3}{8}$	9.10	11.70

### UNIVERSAL BRACKET SWING COCKS



J-5284

Size Inches	PRICE, EACH		Size Inches	PRICE, EACH	
	Stand- ard	Extra Heavy		Stand- ard	Extra Heavy
$\frac{1}{8} \times \frac{1}{8}$	11.70	....	$\frac{3}{8} \times \frac{1}{8}$	12.05	15.60
$\frac{1}{4} \times \frac{1}{8}$	11.70	....	$\frac{3}{8} \times \frac{1}{4}$	12.35	15.60
$\frac{1}{4} \times \frac{1}{4}$	12.05	....	$\frac{3}{8} \times \frac{3}{8}$	13.00	16.90

### Bray Burner



J-5286

### Brass Pillar



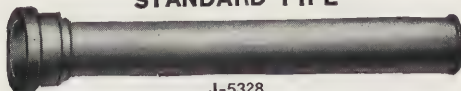
J-5288

Price, Bray Burners.....per gross	11.00
" Brass Pillars....."	3.00

### LAVA TIPS

Price.....per gross	2.00
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## CAST IRON PIPE STANDARD PIPE



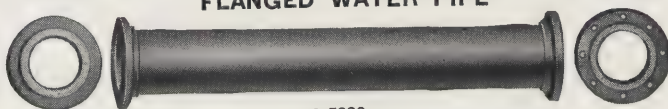
J-5328

### STANDARD THICKNESS AND WEIGHTS OF CAST IRON PIPE BELL AND SPIGOT PIPE. TURNED AND BORED PIPE

All lengths to lay 12 feet. All weights are approximate; those per foot include allowance for bell. All pipe is tested by water pressure. Turned and bored pipe made to order only.

Nominal Inside Diameter Inches	CLASS A GAS 100-foot Head 43 Pounds Pressure		CLASS B STANDARD 200-foot Head 86 Pounds Pressure		CLASS C MEDIUM HEAVY 300-foot Head 130 Pounds Pressure		CLASS D EXTRA HEAVY 400 foot Head 173 Pounds Pressure	
	Thick- ness Inches	Weight per Foot Pounds	Thick- ness Inches	Weight per Foot Pounds	Thick- ness Inches	Weight per Foot Pounds	Thick- ness Inches	Weight per Foot Pounds
3	....	.....	.50	18.	.53	19.	....	.....
4	.42	20.	.45	21.7	.48	23.3	.52	25.
6	.44	30.8	.48	33.3	.51	35.8	.55	38.3
8	.46	42.9	.51	47.5	.56	52.1	.60	55.8
10	.50	57.1	.57	63.8	.62	70.8	.68	76.7
12	.54	72.5	.62	82.1	.68	91.7	.75	100.
14	.57	89.6	.66	102.5	.74	116.7	.82	129.2
16	.60	108.3	.70	125.	.80	143.8	.89	158.3
18	.64	129.2	.75	150.	.87	175.	.96	191.7
20	.67	150.	.80	175.	.92	208.3	1.03	229.2
24	.76	204.2	.89	233.3	1.04	279.2	1.16	306.7
30	.88	291.7	1.03	333.3	1.20	400.	1.37	450.
36	.99	391.7	1.15	454.2	1.36	545.8	1.58	625.
42	1.10	512.5	1.28	591.7	1.54	716.7	1.78	825.
48	1.26	666.7	1.42	750.	1.71	908.3	1.96	1050.
54	1.35	800.	1.55	933.3	1.90	1141.7	2.23	1341.7
60	1.39	916.7	1.67	1104.2	2.	1341.7	2.38	1583.3
72	1.62	1283.4	1.95	1545.8	2.39	1904.2	....	.....
84	1.72	1633.4	2.22	2104.2	....	.....	....	.....

## FLANGED WATER PIPE



J-5330

Flanged Cast Iron Pipe, sizes 3 to 48 inches, same thickness as Standard Pipe. Thickness of flange equals approximately  $1\frac{1}{2}$  times thickness of pipe, plus  $\frac{1}{8}$  inch. Pipe made in 12-foot lengths and faced  $\frac{1}{16}$  inch short for gaskets.

### APPROXIMATE WEIGHTS OF LEAD AND HEMP REQUIRED FOR JOINTS

Pipe.....inches	4	6	8	10	12	14	16	18	20
Lead, 2 Inches Thick.....pounds	7.5	10.25	13.25	16	19	22	30	33.8	37
Hemp....."	.21	.31	.44	.53	.61	.81	.94	1	1.25
Pipe.....inches	24	30	36	42	48	54	60	72	84
Lead, 2 Inches Thick.....pounds	44	54.25	64.75	75.25	85.5	97.6	108.30	128	147
Hemp....."	1.50	2.06	3	3.62	4.37	6.25	8.25	12.5	15

Inquiries and orders should clearly indicate the approximate number of lengths or feet of pipe of each size and class required. Give the desired delivery point and time of shipment, with any particulars as to sizes required first, the service intended, etc.; this will facilitate prompt attention and avoid delays.



## SPECIALS FOR CAST IRON PIPE

### 90° QUARTER BENDS



**J-5332**

Size Inches	Weight Pounds	Size Inches	Weight Pounds	Size Inches	Weight Pounds
4	82	12	366	20	1070
6	130	14	504	24	1656
8	200	16	750	30	2836
10	278	18	888	36	4820

### 45° EIGHTH BENDS



**J-5334**

4	66	12	265	20	964
6	105	14	442	24	1515
8	150	16	558	30	2291
10	202	18	663	36	4012

### 22½° SIXTEENTH BENDS

4	66	12	265	20	858
6	105	14	382	24	1372
8	150	16	484	30	2080
10	202	18	574	36	4012

### TEES



**J-5336**

Size Inches	Weight Pounds	Size Inches	Weight Pounds
4x 4x 4	128	12x12x 8	474
6x 6x 6	200	12x12x 6	458
6x 6x 4	183	12x12x 4	445
8x 8x 8	294	14x14x14	724
8x 8x 6	270	16x16x16	969
8x 8x 4	255	16x16x12	861
10x10x10	394	20x20x20	1438
10x10x 8	371	24x24x24	2113
10x10x 6	352	30x30x30	3660
10x10x 4	338	36x36x36	5567
12x12x12	512	48x48x48	....
12x12x10	491	.....	....

### CROSSES



**J-5338**

Size Inches	Weight Pounds	Size Inches	Weight Pounds
4x 4x 4x 4	166	12x12x 8x 8	545
6x 6x 6x 6	257	12x12x 6x 6	512
6x 6x 4x 4	221	12x12x 4x 4	486
8x 8x 8x 8	372	14x14x14x14	963
8x 8x 6x 6	325	16x16x16x16	1259
8x 8x 4x 4	294	18x18x18x18	1454
10x10x10x10	493	20x20x20x20	1828
10x10x 8x 8	443	24x24x24x24	2694
10x10x 6x 6	406	30x30x30x30	4609
10x10x 4x 4	377	36x36x36x36	6857
12x12x12x12	623	48x48x48x48	....
12x12x10x10	577	.....	....

### PLUG



**J-5340**

Size Inches	Wt., Lbs. Plug	Wt., Lbs. Cap
4	8	26
6	14	40
8	24	59
10	38	81
12	50	104
14	65	149
16	96	198

### CAP



**J-5342**

Size Inches	Wt., Lbs. Plug	Wt., Lbs. Cap
4	121	242
6	20	156
8	472	308
10	723	442
12	1050	704
14	2047	1084
16	....	2341

### SLEEVES



**J-5344**

Size Inches	Weight Pounds	Size Inches	Weight Pounds
4	61	14	280
6	87	16	443
8	119	18	518
10	176	20	625
12	223	24	821



## SPECIALS FOR CAST IRON PIPE

**Y BRANCH****J-5346****REDUCER****J-5348****INCREASER****J-5350****Y BRANCHES**

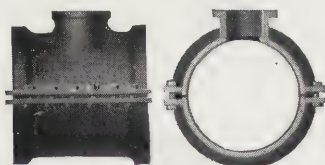
Size Inches	Weight Pounds	Size Inches	Weight Pounds	Size Inches	Weight Pounds
4x4	103	12x12	632	20x20	2199
6x6	181	14x14	985	24x24	3599
8x8	291	16x16	1413	.....	.....
10x10	434	18x18	1737	.....	.....

**REDUCERS**

Size Inches	Weight Pounds	Size Inches	Weight Pounds	Size Inches	Weight Pounds
6x4	97	14x10	320	20x16	711
8x6	143	14x8	288	20x14	638
8x4	119	14x6	256	20x12	576
10x8	198	16x14	461	24x20	987
10x6	169	16x12	405	24x18	901
10x4	146	16x10	364	24x16	838
12x10	261	18x16	569	24x14	764
12x8	231	18x14	502	30x24	1398
12x6	202	18x12	446	36x30	2264
12x4	179	18x10	405	.....	.....
14x12	360	20x18	776	.....	.....

**INCREASERS**

Size Inches	Weight Pounds	Size Inches	Weight Pounds	Size Inches	Weight Pounds
4x6	104	6x10	180	10x12	267
4x8	132	6x12	218	12x14	378
4x10	162	8x10	201	.....	...
6x8	150	8x12	240	.....	...

**SPLIT TEES****J-5352**

With any size outlet.

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
3	6.50	12	20.00	24	50.00
4	8.00	14	22.50	30	60.00
6	10.00	16	27.50	36	70.00
8	12.50	18	35.00	..	.....
10	17.50	20	40.00	..	.....

**SPLIT SLEEVES****J-5354**

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
3	3.00	12	13.50	24	40.00
4	3.00	14	20.00	30	45.00
6	5.25	16	21.00	36	55.00
8	8.25	18	28.50	..	.....
10	11.50	20	38.50	..	.....

**FLANGE AND SPIGOT****J-5356**

Size Inches	Length Inches	Price Each	Size Inches	Length Inches	Price Each
3	16	1.90	14	18	14.70
4	16	2.50	16	20	20.00
6	16	3.75	18	20	22.80
8	16	5.95	20	20	27.50
10	18	9.00	24	24	43.00
12	18	11.85	..	..	.....

**FLANGE AND BELL****J-5358****FLANGE****J-5360****FLANGE AND BELL**

Size Inches	Laying Length Inches	Price Each	Size Inches	Laying Length Inches	Price Each
3	4	2.20	14	6	14.40
4	4	2.80	16	6	18.00
6	4	4.05	18	6	19.70
8	4	6.00	20	6	23.90
10	6	8.75	24	6	40.00
12	6	11.25	..	..	.....

**FLANGES**

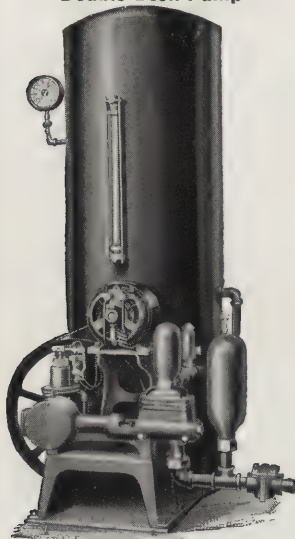
Faced and drilled.

Size Inches	Price Each	Size Inches	Price Each	Size Inches	Price Each
3	2.25	10	9.25	18	31.00
4	3.00	12	12.50	20	34.00
6	4.00	14	16.00	24	46.00
8	6.50	16	26.00	..	.....

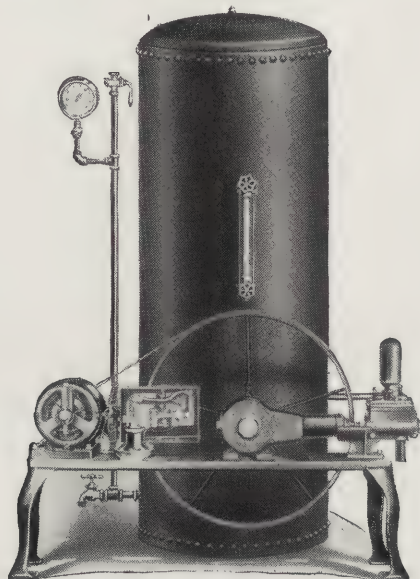
## ROBERTS GEM WATER SUPPLY SYSTEMS

### Long Base Pump

Double Deck Pump



J-5398



J-5400

### DOUBLE DECK ELECTRIC PUMPS

Unless otherwise specified, these pumps are arranged for automatic compression tank service. When only pump is ordered, automatic cut-out, air intake device on end of cylinder, suction air chamber, suction screen and pump couplings are furnished. No knife switch furnished. Electrical code require one in iron box.

When complete compression tank system is ordered it consists of pump as described, also tank. Pressure gauge and pipe, gauge cocks, glass and rods, gate valve, pop safety valve, pipe and fittings from pump to tank. Floor plate is furnished on 42 and 80-gallon tanks. If fresh water valve is desired so as to get water direct from well without drawing on tank, they are  $\frac{1}{2}$ ,  $\frac{3}{4}$  and 1 inch same size as discharge pipe of pump.

Can be furnished for open tank with or without automatic cut-out.

No.	Capacity per Hour, Gallons	Motor H. P.	DIMENSIONS, INCHES			Suction Inches	Weight Pounds
			Height	Length	Width		
A1	150	1-6	21	22	10	3-4	125
B1	300	1-4	21	29	10	1	200
B2	400	1-3	21	30	12	1	250

### LONG BASE ELECTRIC PUMPS

The piston speed is slower than that of the double deck; yet it delivers its full capacity. It is less liable to knock at end of stroke. Can be furnished with tank and fittings.

No.	Capacity per Hour, Gallons	Motor H. P.	DIMENSIONS, INCHES			Suction Inches	Discharge Inches	Weight Pounds
			Height	Length	Width			
1	300	1-4	30	11	48	3-4	1-2	200
2	400	1-3	30	11	48	1	3-4	250

### TANKS

Cap. Gallons	Diam. Inches	Height, Inches	Weight, Pounds
42	16	48	95
80	20	60	150
120	24	60	220
220	30	72	500

## ROBERTS GEM WATER SUPPLY SYSTEMS

### HOW TO SELECT THE RIGHT SYSTEM

System No.	Pump No.	Capacity per Hour Gallons	Capacity Tank Gallons
400	A1	150	42
401	A1	150	80
402	A1	150	120
403	B1	300	42
404	B1	300	80
405	B1	300	120
406	B1	300	220
407	B2	400	42
408	B2	400	80
409	B2	400	120
410	B2	400	220

In order to select the proper system required, determine first the source of water supply and the vertical depth of water.

### FOR SHALLOW WELL PUMPS

If the water stands in the well 22 feet vertical, or less, from the pump, a suction pump should be used, such as No. A1, No. 1, or No. 2, depending upon the amount of water required per day. Suction pumps in the majority of cases are placed in the basement, and if the suction pipe is from 3 to 5 feet under ground (to prevent freezing) take this into account to determine the total vertical suction lift. Generally the depth of water to the surface of the ground is given as the total vertical distance, and is erroneous, as the suction pipe is under the frost line.

### SYSTEMS TO USE

The soft water service, where the source of water supply is a cistern, or hard water from a shallow well, stream, lake or spring within 22 feet vertical distance, with system No. 400, No. 401, or No. 403 for one bath tub, one lavatory, kitchen sink and laundry. If suction is excessive use No. 403 to No. 406.

Use system No. 403 to No. 406 for two bath tubs, two lavatories, and the usual other fixtures in the kitchen and laundry.

For two or three bath tubs, or two bath tubs and one shower, and the usual other fixtures in the kitchen and laundry, use systems No. 405, No. 406, or No. 407, with tanks from 80 up to 220 gallon capacity.

For apartment houses or on the farm, for watering stock, sprinkling lawns, or any condition in the city or country, where a great amount of water is needed, use systems No. 408, No. 409, or No. 410, with tanks that you believe would give the best service, having in mind that it is best to have a large pump, so you are sure of getting the water, rather than a small pump with a large tank.

### WATER REQUIREMENTS

An allowance of 30 gallons of water per day for each member of the family is liberal. In hot weather more water than this may be used when a large amount is required for sprinkling. A ½-inch garden hose with an adjustable nozzle wide open will use, under 30 pounds pressure, about 250 gallons per hour. By partially closing the nozzle a fairly good stream can be thrown with 150 gallons per hour.

It is customary to figure from 5 to 10 gallons per day for horses, cattle, 7 to 12 gallons; hogs, 2 to 2½ gallons; sheep, 1 to 2 gallons. It requires about 1½ gallons to fill an ordinary lavatory; 30 gallons to fill the average bath tub, and 4 to 6 gallons to flush the closet. Continuous flowing drinking fountains require about 50 gallons per hour. Self-closing fountains require considerably less, depending on how often used.



## ROBERTS GEM WATER SUPPLY SYSTEMS

### ELECTRIC PUMPS ONLY WITHOUT TANK FITTINGS

Price, No. A1 Belted Electric Lift, Double Deck Automatic for Direct Pressure, and Discharges 150 Gallons per Hour.....	each	170.00
Price, No. 1 Belted Electric Lift, Long Base, Automatic for Direct Pressure, and Discharges 300 Gallons per Hour.....	each	220.00
Price, No. B1 Belted Electric Lift, Double Deck, Automatic for Direct Pressure and Delivers 300 Gallons per Hour.....	each	220.00
Price, No. 2 Belted Electric Lift, Long Base, Automatic for Direct Pressure, and Delivers 400 Gallons per Hour.....	each	260.00
Price, No. B2 Belted Electric Lift, Double Deck, Automatic for Direct Pressure, and Delivers 400 Gallons per Hour.....	each	260.00

The Double Deck Lifts Nos. A1, B1, B2 are used on complete systems, and the Long Base Nos. 1 and 2 are preferred for long suction lift.

The Long Base Pumps can be made up into systems if preferred.

On electric lifts, if needed for automatic open tank, add **10.00** to above prices.

If needed for non-automatic, no electric cut-out for either direct pressure or open tank, deduct **10.00**.

Electric lift include guaranteed pump, electric motor, automatic cut-out connected by copper tube to discharge connection, suction screen, suction air chamber and air intake device on end of cylinder.

### ELECTRIC LIFTS WITH TANKS AND FITTINGS

#### CAPACITY 150 GALLONS PER HOUR

Price, No. A1 Pump Complete with	42-gallon Tank and Fittings,	Black each	234.00
" " A1 " " " 42 " " " " "	Galv. "	"	240.00
" " A1 " " " 80 " " " " "	Black "	"	260.00
" " A1 " " " 80 " " " " "	Galv. "	"	270.00
" " A1 " " " 120 " " " " "	Black "	"	270.00
" " A1 " " " 120 " " " " "	Galv. "	"	284.00

#### CAPACITY 300 GALLONS PER HOUR

Price, No. B1 Pump Complete with	42-gallon Tank and Fittings,	Black each	270.00
" " B1 " " " 42 " " " " "	Galv. "	"	280.00
" " B1 " " " 80 " " " " "	Black "	"	290.00
" " B1 " " " 80 " " " " "	Galv. "	"	300.00
" " B1 " " " 120 " " " " "	Black "	"	330.00
" " B1 " " " 120 " " " " "	Galv. "	"	350.00
" " B1 " " " 220 " " " " "	Black "	"	400.00
" " B1 " " " 315 " " " " "	" "	"	440.00
" " B1 " " " 525 " " " " "	" "	"	500.00

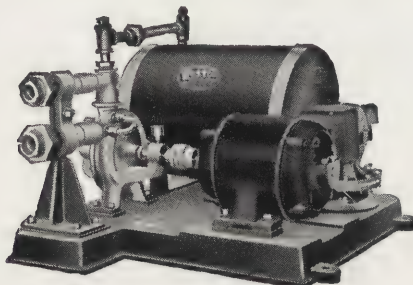
#### CAPACITY 400 GALLONS PER HOUR

Price, No. B2 Pump Complete with	42-gallon Tank and Fittings,	Black each	310.00
" " B2 " " " 42 " " " " "	Galv. "	"	320.00
" " B2 " " " 80 " " " " "	Black "	"	320.00
" " B2 " " " 80 " " " " "	Galv. "	"	330.00
" " B2 " " " 120 " " " " "	Black "	"	350.00
" " B2 " " " 120 " " " " "	Galv. "	"	370.00
" " B2 " " " 220 " " " " "	Black "	"	430.00
" " B2 " " " 315 " " " " "	" "	"	460.00
" " B2 " " " 525 " " " " "	" "	"	520.00

Complete system consists of pump with automatic cut-out, and motor to suit current (except 25 cycle, which is **24.00** additional on A1 and **36.00** on B1 and B2) whether it is city or farm light system, size tank desired, iron base for pump and tank up to and including 80 gallons, pressure gauge and pipe connection, all pipes and fittings from pump to tank. including a guaranteed pop safety valve, gate valve, all put together with unions.



## WESTCO TANKLESS WATER SYSTEMS



J-5402

The Westco Tankless Water System is made possible because of the ability of the pump to deliver, in a steady flow, large volumes of water under constant pressure against varying heights, which need not be predetermined. No tank is required. It is simple, complete, compact and dependable.

The illustration shows all that there is to this complete, automatic water system. It consists of a Westco Pump, motor, automatic electric control switch, compression chamber, necessary fittings and connections complete ready for installation. Today thousands are in successful operation throughout the United States.

### SPECIFICATIONS

**PUMPS.**—Solid bronze casings and covers; bronze impellers; monel metal shafts, ball thrust outboard bearings.

**AUTOMATIC SWITCHES.**—Perfected Westco, designed and built especially for Westco System Service.

**MOTORS.**—Only approved types and makes used.

**UNIONS.**—Ground joints.

**COUPLINGS.**—Flexible and noiseless, Westco design.

**ASSEMBLY.**—All mounted on one piece substantial base, as shown.

**FINISH.**—Black enamel bases, motors and compression tanks; material and finish of all exposed parts made to avoid rust or corrosion.

Model Pump	No. of System	Minimum Capacity G. P. H.	Maximum Capacity G. P. H.	—MOTOR SPECIFICATIONS—					Approx. Shipping Weight Pounds
				H. P.	Volts	Cycle	Phase	Current	
CC	40	200	350	1/4	110	60	Single	A. C.	165
CC	40	200	350	1/4	220	60	"	A. C.	165
CC	40	200	350	1/4	220 or 110	..	.....	D. C.	165
CC	40	200	350	1/4	32	**	.....	D. C.	165
CC	*41	200	350	1/4	110	60	Single	A. C.	185
CC	*41	200	300	1/4	110	25	"	A. C.	185
AAB	*45	400	600	1/2	110	60	"	A. C.	215
AAB	45	400	600	1/2	110	60	2 or 3	A. C.	215
AAB	*45	300	450	1/2	110	25	Single	A. C.	215
AAB	45	400	600	1/2	220 or 110	..	.....	D. C.	215
L	*50	700	1000	1	110	60	Single	A. C.	425
L	50	700	1000	1	110	60	2 or 3	A. C.	425
L	*50	500	800	1	110	25	Single	A. C.	425
L	50	700	1000	1	220 or 110	..	.....	D. C.	425

\*Repulsion-induction type motor used.

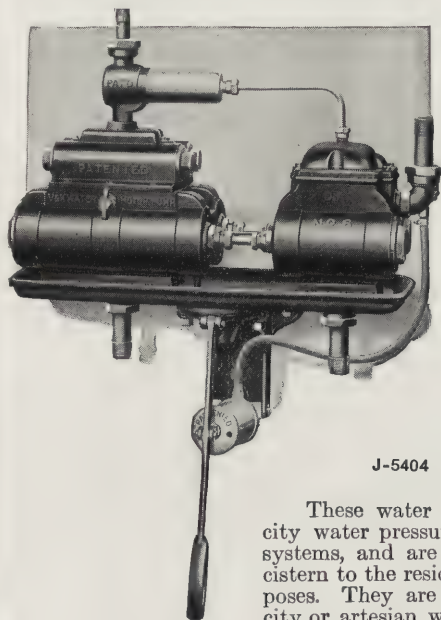
\*\*This system is not recommended for use with batteries of less than 180 ampere-hour capacity.

# V & K WATER MOTOR PUMPS

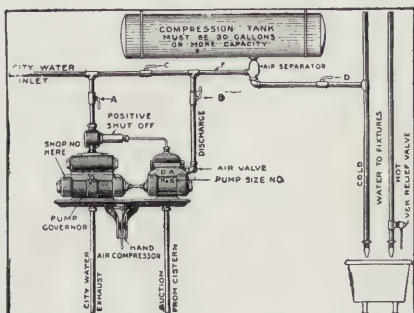
## STYLE DA

WITH HAND-OPERATED AIR COMPRESSOR

METHOD OF INSTALLATION



J-5404



These water motor pumps or water lifts are operated by city water pressure or pressure from pneumatic water supply systems, and are used for pumping soft or rain water from cistern to the residence for bath room, kitchen and laundry purposes. They are adaptable only in those localities where the city or artesian water is hard or otherwise unfit for use in the residence and where soft or rain water is used.

They are entirely automatic in operation and have only four moving parts.

Style DA motors are fitted with the V & K Positive Shut-off, V & K Air Separator, V & K Hand-operated Air Compressor and a full set of brass union fittings.

The V & K Air Separator and V & K Hand-operated Air Compressor are exclusive features of the V & K Pumps. They eliminate more than 75 per cent of the wear and tear on the pumps, besides eliminating altogether the water-logging of the compression tanks.

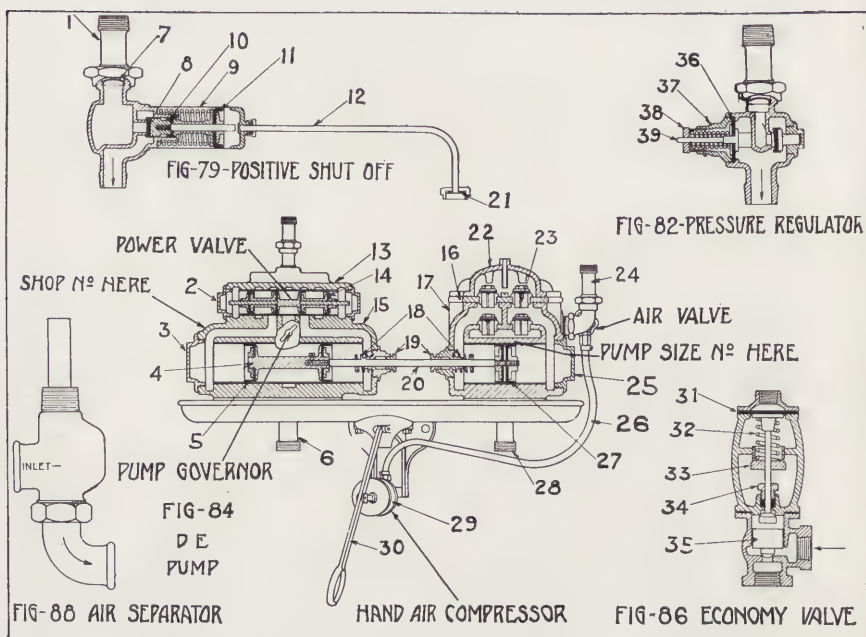
This air compressor may be attached to any V & K Pump already installed.

Be sure to get the lowest city water pressure at the point where pump is to be located, then choose the proper size pump for that pressure.

Diagram shows the correct method of installation using the Style DA Pump. Nothing less than a 30-gallon compression tank should be used, even on the smallest system. If the pump is to be used for supplying more than one bath room, add 30-gallon tank capacity for each additional bath, and for shower bath even greater tank capacity is necessary.

Size No.	Water Pressure Required Pounds	SIZE OF PIPES TO USE, INCHES				Price Each
		Supply	Exhaust	Suction	Discharge	
4	45 to 65	1/2	3/4	1	3/4	.....
5	15 " 30	3/4	3/4	3/4	1/2	.....
6	25 " 50	3/4	3/4	1	3/4	.....
7	65 and above	1/2	3/4	1	3/4	.....

## V. & K. WATER MOTOR PUMPS



J-5406

### LIST PRICES, REPAIR PARTS AND PACKING

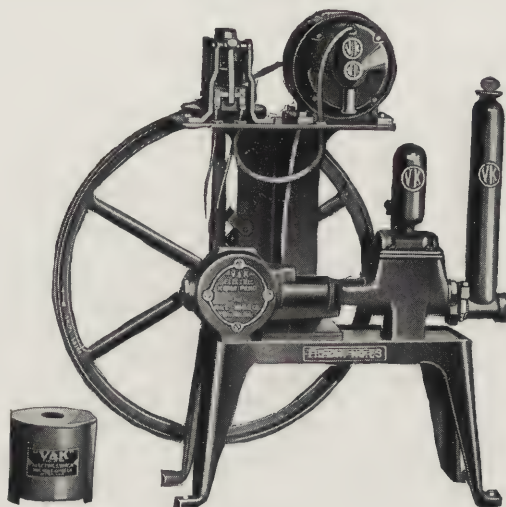
Symbol No.	Name of Piece	Price Each	Symbol No.	Name of Piece	Price Each
1	City Water Inlet Union	.....	21	Positive Shut-off Tube Gasket	.....
2	Chest Plug	.....	22	Discharge Cap	.....
3	Power Cylinder Plug	.....	23	Pump Checks, Complete	.....
4	" Piston	.....	24	Soft Water Discharge Union	.....
5	" Leathers	.....	25	Pump Cylinder Plug	.....
6	City Water Exhaust Union	.....	26	Air Compressor Tube, Complete with Connections	.....
7	Inlet Screen	.....	27	Pump Piston Leather	.....
8	Positive Shut-off Valve Rubber	.....	28	Soft Water Suction Union	.....
9	" Cylinder	.....	29	Air Compressor Cylinder	.....
10	Small Leather for Positive Shut-off	.....	30	" Lever	.....
11	Large Leather for Positive Shut-off	.....	31	Economy Valve Diaphragm	.....
12	Tube for Positive Shut-off	.....	32	" " Spring	.....
13	Power Valve Chest	.....	33	" " Adjusting Screw	.....
14	" " Leather	.....	34	Economy Valve Gland	.....
15	" Cylinder	.....	35	" " " "	.....
16	Discharge Valve Plate	.....	36	D. Regulator Diaphragm	.....
17	Pump Cylinder	.....	37	Regulator Cap	.....
18	Cushion Spring	.....	38	" Adjusting Screw	.....
19	Rod Gland	.....	39	" Valve Stem	.....
20	Piston Rod	.....		Complete Set of Packing	.....

Joint rubbers or gaskets furnished gratis.

When ordering repair parts always give the shop No. of the pump, symbol No. of the piece, number of pieces wanted.

# V. & K. ELECTRIC SHALLOW WELL PUMPS

No. 266



J-5408

This outfit is built especially for replacing hand pumps or water lifts, where the compression tank is already installed. Operates entirely automatically, self-starting, self-stopping, self-oiling and self-priming.

## SPECIFICATIONS FOR COMPLETE OUTFIT

The complete outfit includes special electric motor, pump and automatic electric switch, all mounted upon heavy iron base, as shown, pressure relief valve, vacuum chamber, special air attachment for replenishing the air in tank, also handle for operating by hand in case of emergency.

Maximum pressure is 50 pounds. Vertical suction lift, 22 feet.

No.	Size	Capacity Gallons	H. P. Motor	PIPE SIZES, INCHES		Weight Pounds	Price Each
				Suction	Discharge		
266	J	120	...	3/4	1/2	100	.....
266	K	180	...	3/4	1/2	120	.....
266	L	210	...	3/4	1/2	150	.....
266	M	360	...	1	3/4	225	.....

Price, No. 266M—With Motor for 32 D. C. or A. C., Any Cycle Other than 60.....each .....

The above prices are for 32, 110, or 220-volt, direct current. Also 110 or 220-volt alternating current, 60 cycles. Add ..... for A. C. any cycle other than 60.

NOTE.—When ordering, always specify size and voltage. If current is alternating, give number of cycles.

## V. & K. KOLTAP FRESH WATER CONNECTION

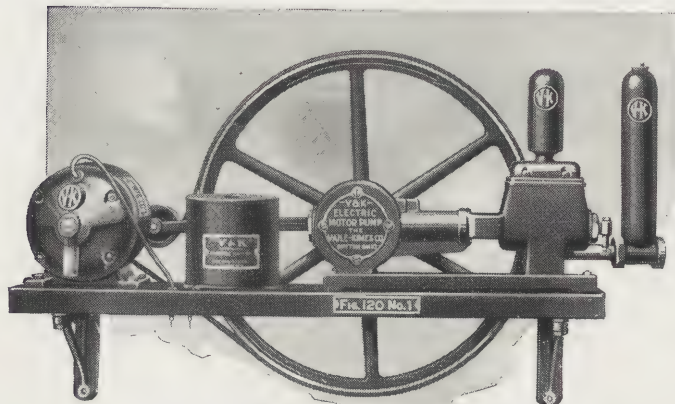
An attachment for supplying fresh water for drinking purposes direct from the well.

Size.....	number	93-A	93-B	93-C	93-D
".....	inches	1 1/2	3/4	1	1 1/4
Price.....	each	....	....	....	....

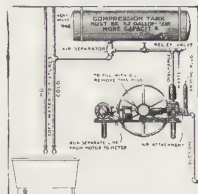


## V & K ELECTRIC RAIN WATER PUMPS FOR DIRECT PRESSURE SYSTEMS

No. 120



J-5410



The V & K Rain Water Pump is recommended for use in preference to the water motor pump or water lift for supplying soft or rain water from the cistern automatically to the house fixtures.

It is automatic, maintains an even pressure on the system at all times and is not affected by varying city water pressure as is the water lift.

The expense to operate and keep in repair is less than the water lift and will supply the average family with all their soft water requirements at a cost of about  $\frac{1}{2}$  cent per day for electric current.

Number.....	0	1
Capacity of Pump.....	gallons per hour	120 180
Maximum Pressure.....	pounds	35 35
Vertical Suction Lift.....	feet	22 22

No. 120 Outfit is automatic, starting and stopping between a fixed pressure limit in a closed tank and under absolute control of our V & K Electric Pressure Switch.

No. 120 Outfit includes: V & K Pump; V & K Special Electric Motor; V & K Automatic Pressure Switch; V & K Pressure Relief Valve; V & K Air Attachment; V & K Air Separator; V & K Priming Chamber; unions for suction and discharge pipes; all electrical connections made up ready to attach to line wires.

Number.....	0	1
Price, No. 120 Outfit.....	.....	.....

Above price covers 32, 110 and 220 volts, D. C. 110 and 220 volt, 60-cycle, A. C. motors.  
Add .... for A. C. motors any cycle other than 60.

### TABLE OF SIZES, CAPACITIES, DIMENSIONS AND WEIGHTS

Size No.	Gallons per Hour	SIZE OF PIPE, INCHES		DIMENSIONS, INCHES			Shipping Weight Pounds
		Suction	Discharge	Length	Width	Height	
0	120	$\frac{3}{4}$	$\frac{1}{2}$	29	10	18	100
1	180	$\frac{3}{4}$	$\frac{1}{2}$	33	10	20	120

### BRACKETS OR LEGS

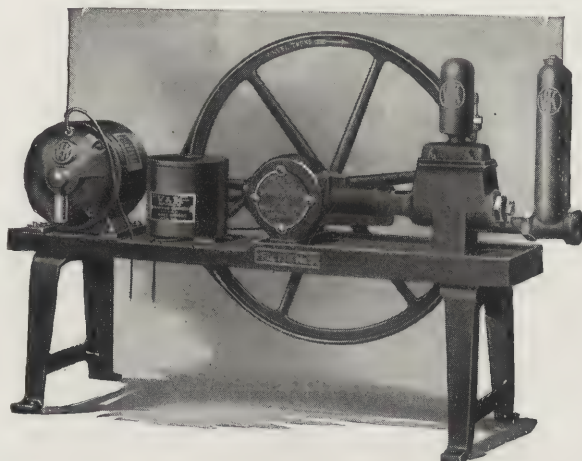
No. 120 is regularly mounted on brackets, but when so ordered will be mounted on legs at same price.

### NOTICE

When ordering, always specify whether for 32, 110 or 220 volts. If current is alternating, give number of cycles.

## V & K ELECTRIC SHALLOW WELL PUMPS

No. 130



J-5412

This outfit is amply large to supply the ordinary size residence with water from a well or other source of supply for all general purposes, including a moderate amount of sprinkling. It is suitable for vertical suction lifts of 20 to 22 feet and for pumping against 50 pounds pressure or 110 feet head.

Crank shaft, crosshead and connecting rod pins are of hardened and ground steel; all bearings, crosshead and connecting rods are hard bronze; piston rod is Tobin bronze; valve seats and stems are bronze, valves are pure rubber and the piston is leather packed.

All working parts operate in an oil-tight, dustproof crank case in a bath of oil. The electric motors are also provided with hard oil reservoirs of ample capacity to run for from six months to a year.

This outfit is equipped with an automatic electric switch which makes it entirely automatic in operation. It is regularly adjusted to start the motor when the pressure is reduced in the system to about 30 pounds and to stop it when the pressure reaches 50 pounds.

### No. 130—SIZE No. 3—CAPACITY, 210 GALLONS PER HOUR

Price, with LH-2 Motor, 32, 110 or 220 Volts, D. C. or A. C., 60 Cycle.....  
 " " LH-2 " 110 or 220 Volts, any Cycle other than 60.....

### No. 130—SIZE No. 5—CAPACITY, 360 GALLONS PER HOUR

Price, with H-5 Motor, 110 or 220 Volts, D. C. or A. C., 60 Cycles.....  
 " " H-5 " 32 Volts, D. C. or A. C., for any Cycle other than 60.....

### No. 130 DUPLEX—SIZE No. 7—CAPACITY, 720 GALLONS PER HOUR

Price, with H-7 Motor, 110 or 220 Volts, Direct Current.....  
 " " H-7 " 110 " 220 " " " A. C., 60 Cycles or for 32 Volt D. C. ....  
 " " H-7 " 110 " 220 " " " any Cycle other than 60.....

SPECIFICATIONS: V & K pump, air attachment, priming chamber, motor, switch, pressure relief valve, handle for hand operation, unions for suction and discharge.

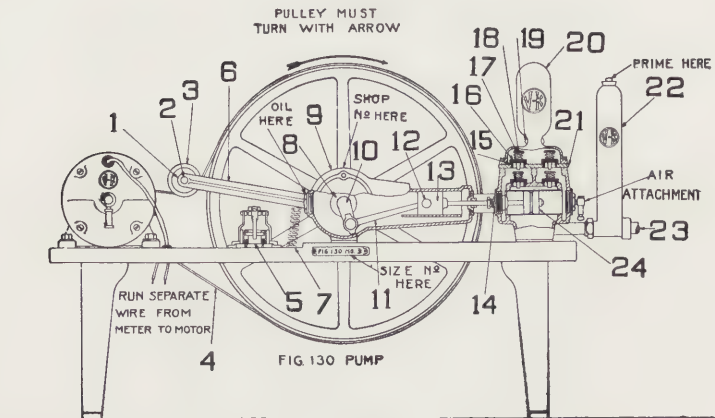
Size No.	PIPE SIZES, INCHES		DIMENSIONS, INCHES			Shipping Weight Pounds
	Suction	Discharge	Length	Width	Height	
3	3/4	1/2	33	10	24	150
5	1	3/4	41	13	27	225
7	1 1/4	1	52	13	31	300

Tank not included in above prices.

In ordering specify whether for 32, 110 or 220 volts. If current is alternating, give number of cycles.

## V & K LIST PRICES REPAIR PARTS AND PACKING

No. 306



J-5414

Symbol No.	Name of Piece	PRICE, EACH		
		No. 3	No. 5	No. 7
1	Idler Pulley Bush.....	.....	.....	.....
2	"    Shaft.....	.....	.....	.....
3	"    Pulley with Bush.....	.....	.....	.....
4	Belt.....	.....	.....	.....
5	Automatic Electric Switch.....	.....	.....	.....
6	Idler Lever.....	.....	.....	.....
7	"    Spring.....	.....	.....	.....
8	Crank Bearing.....	.....	.....	.....
9	Body.....	.....	.....	.....
10	Crank Shaft.....	.....	.....	.....
11	Connecting Rod, Complete.....	.....	.....	.....
12	Crosshead Pin.....	.....	.....	.....
13	".....	.....	.....	.....
14	Stuffing Box.....	.....	.....	.....
15	Valve Seat.....	.....	.....	.....
16	Rubber Valve.....	.....	.....	.....
17	Valve Spring.....	.....	.....	.....
18	"    Stem.....	.....	.....	.....
19	Discharge Union.....	.....	.....	.....
20	Air Chamber.....	.....	.....	.....
21	Discharge Valve Plate.....	.....	.....	.....
22	Vacuum Chamber.....	.....	.....	.....
23	Suction.....	.....	.....	.....
24	Piston Leather.....	.....	.....	.....
25	Air Attachment, Complete.....	.....	.....	.....
	Complete Set of Packing.....	.....	.....	.....

Joint rubbers or gaskets furnished gratis.

When ordering repair parts always give the:

Shop No. or Size No. of the pump.

Symbol No. of the piece.

Number of pieces wanted.

Refer to illustration above.

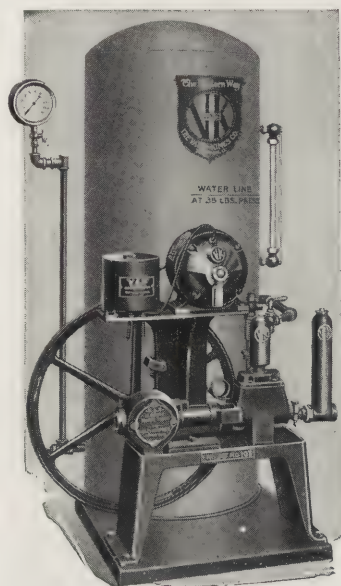


## V & K ELECTRIC WATER SUPPLY SYSTEMS

### DIRECT PRESSURE—SHALLOW WELL

FOR EITHER RAIN OR WELL WATER

#### Style 267



J-5416

No. 267 shows V & K direct pressure water supply system designed especially to fill the demand for a complete, compact and absolutely reliable outfit which may be used for supplying the house fixtures with soft water, or for general water service from a well, spring or any other source of water supply where the vertical depth to water does not exceed 22 feet. For vertical depths in excess of 22 feet use a V & K Deep Well Pump.

No. 267 operates automatically, starting and stopping between a fixed pressure limit in a closed tank and under absolute control of our V & K Electric Pressure Switch.

#### FOR PUMPING SOFT WATER

The smaller size outfits may be used for supplying rain water to the fixtures in the bathroom, laundry, kitchen, etc.

#### FOR GENERAL WATER SUPPLY

The medium and larger size outfits are best adapted for well water service, especially if lawn sprinkling will be included in the requirements.

No. 267 outfit includes: V & K Pump, special electric motor, automatic pressure switch, special quality tank, air attachment, relief valve, pressure gauge, and stop valve. Floor plate with 120-gallon tank and under. Water glass and fittings shown in illustration. All electrical connections made up ready to attach to line wires.

No.		Pump Gal. per Hr.	Tank Gal. Cap.	DIMENSIONS, INCHES					Ship. Wt. Lbs.	PRICE COMPLETE, EACH	
				Suc. tion	Dis. charge	Height	Width	Depth		Black Tank	Galv. Tank
267-E-	2	120	42	$\frac{3}{4}$	$\frac{1}{2}$	48	23	28	240	.....	.....
267-E-	3	180	53	$\frac{3}{4}$	$\frac{1}{2}$	50	25	30	300	.....	.....
267-E-	4	120	82	$\frac{3}{4}$	$\frac{1}{2}$	63	23	32	300	.....	.....
267-F-	4	210	82	$\frac{3}{4}$	$\frac{1}{2}$	63	32	32	370	.....	.....
267-F-	6	210	120	$\frac{3}{4}$	$\frac{1}{2}$	63	32	36	430	.....	.....
267-F-	8	210	220	$\frac{3}{4}$	$\frac{1}{2}$	75	32	40	480	.....	.....
267-G-	8	360	220	1	$\frac{3}{4}$	75	36	44	520	.....	.....
267-G-	10	360	315	1	$\frac{3}{4}$	75	36	48	700	.....	.....

#### NOTICE

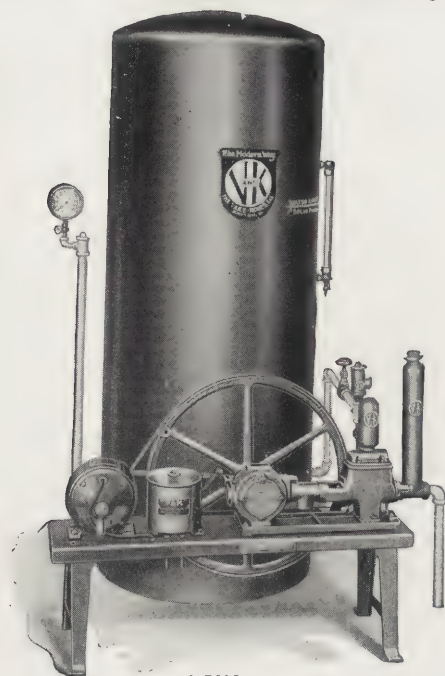
When ordering, specify—Style No., Size No., black or galvanized tank, and voltage. If current is alternating give number of cycles.

V & K Electric Pumps are especially adapted for use with private farm lighting plants.



## V & K ELECTRIC DIRECT PRESSURE SHALLOW WELL WATER SUPPLY SYSTEMS

### STYLE B



**J-5418**

This system is built in four sizes: 120, 180, 210, and 360 gallons per hour.

It is entirely automatic, self-starting, self-stopping, self-lubricating, self-priming and noiseless.

Speeds vary from 120 to 150 revolutions per minute.

If pump is to set more than 22 feet above the level of water in the well, a deep well pump must be used.

Complete system includes:

Pump.

Motor.

Automatic electric pressure switch.

Air attachment.

Vacuum chamber.

Water relief valve.

Waterproof endless belt.

Automatic belt tightener.

Pneumatic tank.

Pressure gauge.

Gate valve.

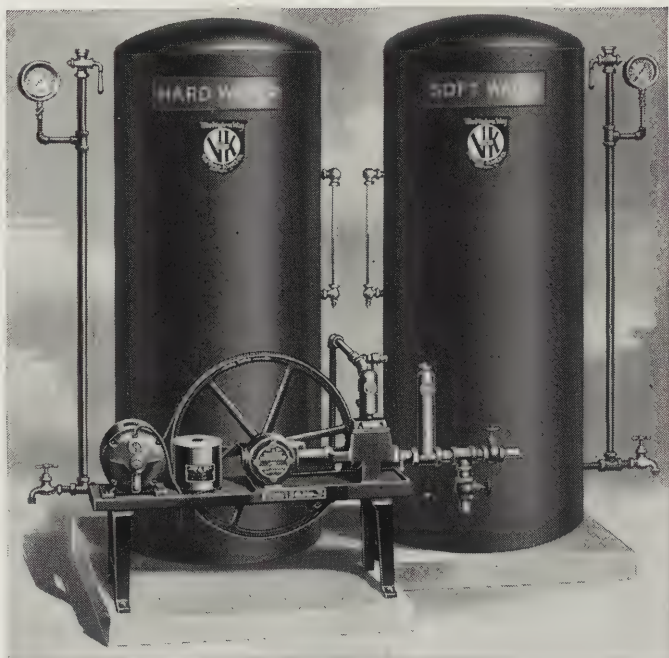
Water glass.

No. of System	Capacity Pump per Hour Gallons	Tank Capacity Gallons	Suction Inches	Discharge Inches	Shipping Weight Pounds
355AX	120	40 Blk.	3/4	1/2	190
355AY		40 Galv.	3/4	1/2	190
355BX		53 Blk.	3/4	1/2	200
355BY		53 Galv.	3/4	1/2	200
355CX		80 Blk.	3/4	1/2	235
355CY		80 Galv.	3/4	1/2	235
356AX	180	40 Blk.	3/4	1/2	210
356AY		40 Galv.	3/4	1/2	210
356BX		53 Blk.	3/4	1/2	225
356BY		53 Galv.	3/4	1/2	225
356CX		80 Blk.	3/4	1/2	255
356CY		80 Galv.	3/4	1/2	255
356DX	210	120 Blk.	3/4	1/2	330
356DY		120 Galv.	3/4	1/2	330
192DX		53 Blk.	3/4	1/2	250
192DY		53 Galv.	3/4	1/2	250
192EX		80 Blk.	3/4	1/2	300
192EY		80 Galv.	3/4	1/2	300
192AX	360	120 Blk.	3/4	1/2	515
192BX		220 "	3/4	1/2	665
192CX		315 "	3/4	1/2	865
190AX		220 "	1	3/4	725
190BX		315 "	1	3/4	925

Prices upon application.

## V. & K. DOUBLE TANK HARD AND SOFT WATER SYSTEMS

SYSTEM No. 195



J-5420

The above shows a combined hard and soft water system, using one pump for supplying both kinds of water. This is accomplished by adding an extra tank for soft water to any of our shallow well water supply systems.

### OPERATION

The suction pipes for both the well and soft water supply are provided with valves near the pump; also a three-way valve is used in the discharge between pump and tanks. To change from well to cistern water open the suction valve from the cistern and the discharge to the soft water tank. When the pressure in the soft water tank has been restored reverse the conditions.

By using a liberal size tank for the soft water enough soft water may be stored with one pumping to last for several days, and the pump in the meantime will be operating automatic on the well water system.

### SPECIFICATIONS FOR COMPLETE SYSTEM

V. & K. shallow well outfit as per specifications on previous pages.

Extra tank for soft water

Three-way valve

Pressure gauge

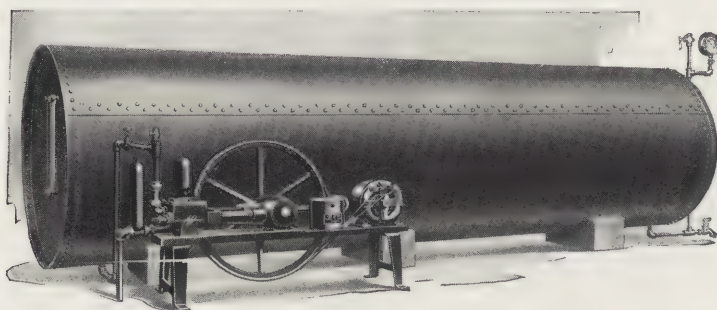
Water glass

### STANDARD OUTFITS

Size No.	Pump No.	No. of Black Tanks	Size of Tank Feet	Capacity Tank Gallons	Shipping Weight Pounds	Price Each
195A	3	2	2 x 5	120	365	.....
195B	3	2	2½ x 6	220	500	.....
195C	3	2	3 x 6	315	700	.....

## V & K ELECTRIC DIRECT PRESSURE SHALLOW WELL WATER SUPPLY SYSTEMS

### STYLE C



J-5422

This outfit meets all requirements of a high-class pneumatic water supply system for the large size residence, apartment house, country home, etc., where large quantities of water are required.

The pump is full automatic, supplying the tank with both water and air. Wherever electricity is available this system makes the best known method of furnishing an ample supply of water under good pressure for all purposes, including fire protection.

Can be arranged with motor to suit the requirements of the local lighting plant, electric railway lines, or private lighting system.

This system can be arranged so that fresh water may be drawn direct from the well for drinking purposes. This is made possible by the V & K Koltap which can be furnished with this outfit.

Maximum pressure, 50 pounds; suction lift, 22 feet.

### SPECIFICATIONS FOR COMPLETE OUTFIT

#### V & K No. 130 PUMP

The complete system includes No. 130, size No. 5 or 7 electric pump, pneumatic tank, pressure gauge, water glass, gate valve and relief valve.

No. of System	Capacity Pump per Hour Gallons	Tank Capacity Gallons	Suction Inches	Discharge Inches	Shipping Weight Pounds
190DHX } 190EHX } 273AX }	360	525 Blk.	1	$\frac{3}{4}$	1225
		720 "	1	$\frac{3}{4}$	1825
		525 "	$1\frac{1}{4}$	1	1390
273BX } 273CX } 273DX }	720	720 "	$1\frac{1}{4}$	1	1990
		1000 "	$1\frac{1}{4}$	1	2590
		1500 "	$1\frac{1}{4}$	1	3190

Prices upon application.

NOTE.—When ordering, always specify voltage. If A. C., give number of cycles.



# V & K ELECTRIC DEEP WELL PUMPS

## STYLE D—DIRECT PRESSURE OPEN-CYLINDER PUMP

PATENT APPLIED FOR

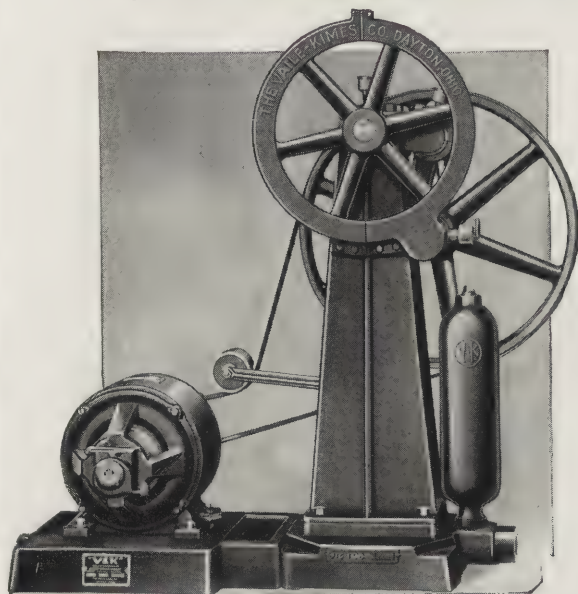
### SPECIFICATIONS

Maximum discharge pressure, 50 pounds. Maximum vertical lift, 300 feet. Capacity, 120 to 1000 gallons per hour.

Size to meet requirements to be selected, which is fixed by the size of well casing and vertical distance from Power Head to water level in well with allowance for the pump cylinder being located well under water at low stage.

Outfit includes:

Power head with differential cylinder; built-in air chamber and discharge valve; pump cylinder with strainer attached; air pump and attachment; special electric motor; automatic pressure switch; water relief valve, and handle for operating by hand.



J-5424										Shipping Weight	
No. of Pump	Capacity per Hour Gallons	Vertical Lift Feet	Outside Diameter Cylinder Inches	Inside Diameter Cylinder Inches	Diameter Drop Pipe Inches	Size Sucker Rod Inches	Diam. Discharge Pipe Inches	H. P. Motor	Pounds	Shipping Weight	
120A-3	120	22-35	2 3/8	1 3/8	1 1/2	1 1/8	3/4	1/4	260		
120B-3		35-75	2 3/8	1 3/8	1 1/2	1 1/8	3/4	1/3	265		
120C-3		75-250	2 3/8	1 3/8	1 1/2	1 1/8	3/4	1/2	280		
180B-3	180	22-50	2 7/8	1 3/4	2	1 1/8	3/4	1/3	270		
180C-3		50-125	2 7/8	1 3/4	2	1 1/8	3/4	1/2	285		
180D-5		125-225	2 7/8	1 3/4	2	1 1/8	1 1/4	3/4	320		
180E-5	200	225-300	2 7/8	1 3/4	2	1 1/8	1 1/4	1	340		
200B-3		22-35	2 7/8	1 7/8	2	1 1/8	3/4	1/3	270		
200C-3		35-100	2 7/8	1 7/8	2	1 1/8	3/4	1/2	295		
200D-5	300	100-200	2 7/8	1 7/8	2	1 1/8	1 1/4	3/4	325		
200E-5		200-300	2 7/8	1 7/8	2	1 1/8	1 1/4	1	345		
300C-3		22-35	3 3/8	2 1/4	2 1/2	1 1/8	3/4	1/2	300		
300D-5	400	35-100	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	3/4	335		
300E-5		100-175	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	1	350		
300F-7		175-300	2 7/8	1 7/8	2	1 1/8	1 1/4	1 1/2	520		
400D-5	600	22-50	4	2 3/4	3	1 1/8	1 1/4	3/4	345		
400E-5		50-100	4	2 3/4	3	1 1/8	1 1/4	1	360		
400F-7		100-200	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	1 1/2	520		
400G-7	775	200-300	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	2	550		
600E-5		22-35	4 1/2	3 1/4	3 1/2	1 1/8	1 1/4	1	370		
600F-7		35-125	4	2 3/4	3	1 1/8	1 1/4	1 1/2	540		
600G-7	1000	125-200	4	2 3/4	3	1 1/8	1 1/4	2	560		
775F-7		22-50	4 1/2	3 1/4	3 1/2	1 1/8	1 1/4	1 1/2	550		
775G-7		50-160	4 1/2	3 1/4	3 1/2	1 1/8	1 1/4	2	570		
1000G-7		22-100	5 1/8	3 3/4	4	1 3/8	1 1/2	2	590		

Prices upon application.

NOTE.—When ordering always specify voltage. If current is alternating give number of cycles.



## V & K BELTED DEEP WELL PUMPS

### STYLE E—OPEN CYLINDER PUMPS

PATENT APPLIED FOR



J-5426

The Style E is similar in construction to the Style D except that it is arranged for belt drive from a gasoline engine or other belt power.

It may be used with the pneumatic water supply system or the open tank system in place of the electric motor drive.

#### SPECIFICATIONS

Maximum discharge pressure, 50 pounds.

Maximum vertical lift, 300 feet.

Capacity, 120 to 1000 gallons per hour.

The size to meet requirement to be selected which is fixed by the size of well casing and vertical distance from power head to water level in well with allowance for the pump cylinder being located well under water at low stage.

Tight and loose pulleys, 10-inch diameter, 2-inch belt.

A 16 or 20-inch single pulley will be substituted if specified when ordering.

Outfit includes:

Power head with differential cylinder.

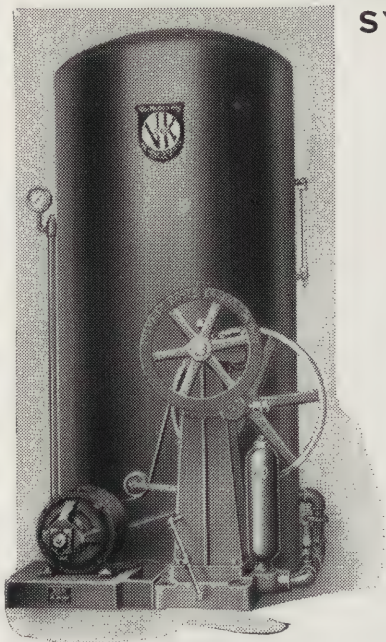
Built in air chamber and discharge valve.

Pump cylinder with strainer attached.

Water relief valve.

No. of Pump	Capacity per Hour Gallons	Vertical Lift Feet	Outside Diameter Cylinder Inches	Inside Diameter Cylinder Inches	Diameter Drop Pipe Inches	Size Sucker Rod Inches	Diameter Discharge Pipe Inches	Shipping Weight Pounds
P-120-3	120	22-275	2 $\frac{3}{8}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{4}$	220
P-180-5	180	22-300	2 $\frac{7}{8}$	1 $\frac{3}{4}$	2	1 $\frac{1}{8}$	1 $\frac{1}{4}$	245
P-200-3	200	22-100	2 $\frac{7}{8}$	1 $\frac{7}{8}$	2	1 $\frac{1}{8}$	3 $\frac{1}{4}$	230
P-200-5		100-300	2 $\frac{7}{8}$	1 $\frac{7}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{4}$	250
P-300-3	300	22-35	3 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{4}$	235
P-300-5		35-175	3 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	260
P-300-7		175-300	2 $\frac{7}{8}$	1 $\frac{7}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{4}$	340
P-400-5	400	22-100	4	2 $\frac{3}{4}$	3	1 $\frac{1}{8}$	1 $\frac{1}{4}$	270
P-400-7		100-300	3 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	350
P-600-5	600	22-35	4 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	280
P-600-7		35-160	4	2 $\frac{3}{4}$	3	1 $\frac{1}{8}$	1 $\frac{1}{4}$	360
P-775-7	775	22-100	4 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	370
P-1000-7	1000	22-60	5 $\frac{1}{8}$	3 $\frac{3}{4}$	4	1 $\frac{3}{8}$	1 $\frac{1}{2}$	385

# V & K ELECTRIC DEEP WELL WATER SUPPLY SYSTEMS



J-5428

## STYLE G

### OPEN CYLINDER PUMP

Maximum pressure, 50 pounds. Capacity, 120 to 1000 gallons per hour. This system was designed to meet the requirement for extra heavy work, where the water level in the well ranges from 22 to 300 feet from the surface.

### FRESH WATER SERVICE

This outfit can be equipped with the V & K Koltap, fresh water attachment, to supply water direct from the well for drinking purposes.

### COMPLETE OUTFIT

Complete outfit includes:

Style D deep well pump.

Pneumatic tank.

Pressure gauge.

Water glass.

Water relief valve.

Gate valve.

Stop and waste cock.

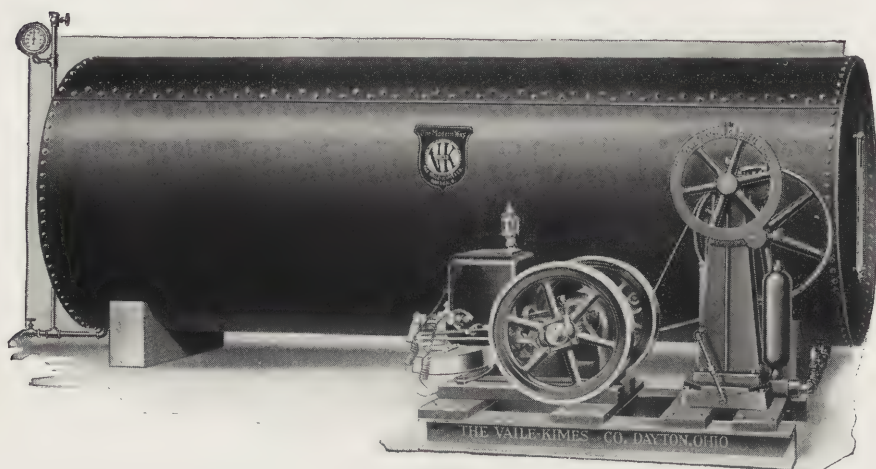
Hose bibb.

No. of System	Cap. Pump per Hr. Gal.	Tank Cap. Gals.	Blk.	Vertical Lift Feet	Outside Diameter Cylinder Inches	Inside Diameter Cylinder Inches	Diam. Drop Pipe Inches	Size Sucker Rod Inches	Diameter Discharge Pipe Inches	H. P. Motor	Shipping Weight Pounds
120AT	120	80	Blk.	22- 35	2 3/8	1 3/8	1 1/2	1 1/8	3/4	1/4	430
120BT		120	"	35- 75	2 3/8	1 3/8	1 1/2	1 1/8	3/4	1/3	505
120CT		220	"	75-250	2 3/8	1 3/8	1 1/2	1 1/8	3/4	1/2	810
180BT		120	"	22- 50	2 7/8	1 3/4	2	1 1/8	3/4	1/3	510
180CT	180	220	"	50-125	2 7/8	1 3/4	2	1 1/8	3/4	1/2	815
180DT		315	"	125-225	2 7/8	1 3/4	2	1 1/8	1 1/4	3/4	915
180ET		525	"	225-300	2 7/8	1 3/4	2	1 1/8	1 1/4	1	1350
200BT		120	"	22- 35	2 7/8	1 7/8	2	1 1/8	3/4	1/3	515
200CT	200	220	"	35-100	2 7/8	1 7/8	2	1 1/8	3/4	1/2	825
200DT		315	"	100-200	2 7/8	1 7/8	2	1 1/8	1 1/4	3/4	920
200ET		525	"	200-300	2 7/8	1 7/8	2	1 1/8	1 1/4	1	1355
300CT		220	"	22- 35	3 3/8	2 1/4	2 1/2	1 1/8	3/4	1/2	825
300DT	300	315	"	35-100	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	3/4	925
300ET		525	"	100-175	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	1	1360
300FT		720	"	175-300	2 7/8	1 7/8	2	1 1/8	1 1/4	1 1/2	2160
400DT		315	"	22- 50	4	2 3/4	3	1 1/8	1 1/4	3/4	930
400ET	400	525	"	50-100	4	2 3/4	3	1 1/8	1 1/4	1	1365
400FT		720	"	100-200	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	1 1/2	2170
400GT		1000	"	200-300	3 3/8	2 1/4	2 1/2	1 1/8	1 1/4	2	2595
600ET		525	"	22- 35	4 1/2	3 1/4	3 1/2	1 1/8	1 1/4	1	1370
600FT	600	720	"	35-125	4	2 3/4	3	1 1/8	1 1/4	1 1/2	2175
600GT		1000	"	125-200	4	2 3/4	3	1 1/8	1 1/4	2	2600
775FT		720	"	22- 50	4 1/2	3 1/4	3 1/2	1 1/8	1 1/4	1 1/2	2180
775GT		1000	"	50-160	4 1/2	3 1/4	3 1/2	1 1/8	1 1/4	2	2610
1000GT	1000	1000	"	22-100	5 1/8	3 3/4	4	1 3/8	1 1/2	2	2620

Prices upon application.

## V & K GASOLINE ENGINE DEEP WELL WATER SUPPLY SYSTEMS

### STYLE J, ENGINE DRIVEN



J-5430

Where electricity is not available the gasoline engine makes the next best combination, lacking only in one essential to make it fully automatic, that is, when it becomes necessary to recharge the pneumatic tank the gasoline engine must be started by hand. A V & K pressure cut-out switch for breaking the battery circuit will automatically stop the engine when maximum pressure is again restored in the tank.

### SPECIFICATIONS FOR COMPLETE OUTFITS

#### V & K DEEP WELL PUMP

Pneumatic pressure tank; pressure gauge; water glass; gate valve; relief valve; stop and waste cock; and hose bibb.

No. of Pump	Capacity per Hour Gallons	Vertical Lift Feet	Outside Diameter Cylinder Inches	Inside Diameter Cylinder Inches	Diameter Drop Pipe Inches	Size Sucker Rod Inches	Diameter Discharge Pipe Inches	H. P. Gasoline Engine	Shipping Weight Less Tank Pounds
G-120-3	120	22-275	2 $\frac{3}{8}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	585
G-180-5	180	22-300	2 $\frac{1}{8}$	1 $\frac{3}{4}$	2	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	670
G-200-3	200	22-100	2 $\frac{1}{8}$	1 $\frac{7}{8}$	2	1 $\frac{1}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	590
G-200-5		100-300	2 $\frac{1}{8}$	1 $\frac{7}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	595
G-300-3	300	22-35	3 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	600
G-300-5		35-175	3 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	700
G-300-7		175-300	2 $\frac{1}{8}$	1 $\frac{7}{8}$	2	1 $\frac{1}{8}$	1 $\frac{1}{4}$	3	1200
G-400-5	400	22-100	4	2 $\frac{3}{4}$	3	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	710
G-400-7		100-300	3 $\frac{3}{8}$	2 $\frac{1}{4}$	2 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	3	1210
G-600-5	600	22-35	4 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{1}{2}$	765
G-600-7		35-160	4	2 $\frac{3}{4}$	3	1 $\frac{1}{8}$	1 $\frac{1}{4}$	3	1220
G-775-7	775	22-100	4 $\frac{1}{2}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{8}$	1 $\frac{1}{4}$	3	1230
G-1000-7	1000	22-60	5 $\frac{1}{8}$	3 $\frac{3}{4}$	4	1 $\frac{3}{8}$	1 $\frac{1}{2}$	3	1245

Prices upon application.

NOTE.—The above outfits can be furnished with any size tank specified.

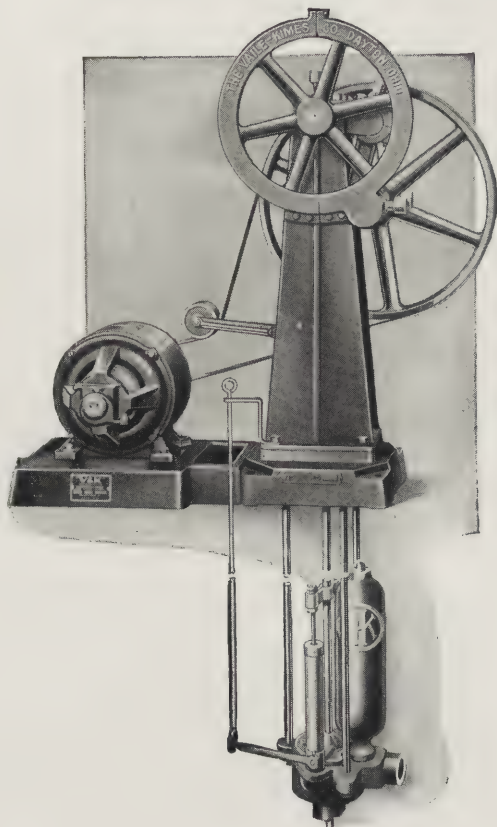


## V & K OPEN CYLINDER PUMPS

### STYLE K

PATENT APPLIED FOR

#### DEEP WELL PUMP WITH FROST-PROOF DROP



J-5432

The above illustration shows the Style D Deep Well Pump fitted with a V & K Frost-Proof Drop.

This new frost-proof drop, with air compressor below frost line, makes it impossible for the air compressor or pump to freeze.

Where the pump must be located in the open with increased danger of freezing, the frost-proof drop will permit taking out the discharge pipe below the surface of the ground.

The frost-proof drop may be added to any "V & K" Open Cylinder Deep Well Pump.

Frost-proof drop is furnished in 5-foot length unless otherwise specified.

Prices upon application.



## V & K WATER SYSTEM ACCESSORIES

### V & K KOLTAP



J-5434

By the use of the V & K Fresh Water Attachment, Koltap, water may be had direct from the well giving a supply of cool, fresh water for drinking and cooking purposes.

This is a new and exclusive V & K feature, and may be used with both shallow and deep well pumps and on pneumatic and open tank water supply systems.

This type provides for a separate or branch pipe for supplying one or more fresh water fixtures. Drawing water from a Koltap fixture will cause the pump to operate and deliver water direct from the well independent of the storage tank. It is located in the discharge pipe between pump and tank. When ordering, always give size of the discharge pipe. Furnished in four sizes,  $\frac{1}{2}$ -inch to  $1\frac{1}{4}$  inches, inclusive, with branch opening tapped  $\frac{1}{2}$  inch. Price, each 5.00.

No.	Size Inches
93A	$\frac{1}{2}$
93B	$\frac{3}{4}$

Price Each
.....
.....

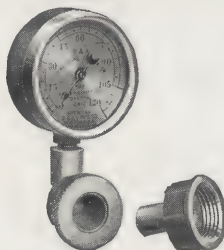
No.	Size Inches	Price Each
93C	1	.....
93D	$1\frac{1}{4}$	.....

### V & K AIR SEPARATOR



J-5436

### V & K PRESSURE INDICATOR



J-5438

### V & K ECONOMY VALVE



J-5440

The V & K Air Separator, for use on direct pressure systems, effects a complete separation of air and water passing through pump and discharge pipe, diverting all the air to the top of tank.

The V & K Pressure Indicator was designed for use in testing water pressures and in determining the water pressure available to operate water motor pumps, automatic heaters, etc., and also for making repairs on these devices. Fitted with attachments for connecting to either plain or hose bibbs.

V & K Economy Valve is used on V & K Economy Systems and is a part of the equipment supplied with Style DE pump. This valve may be used in combination with other makes of pumps, but it is necessary to know the size of pump and the city water pressure required to operate it before changing system.

### V & K PRESSURE RELIEF VALVE

The V & K Pressure Relief Valve for use on closed tank hot water systems is a positive safeguard against accident from excessive pressure caused by overheating of range boiler, weakening of the fire back, or the like.



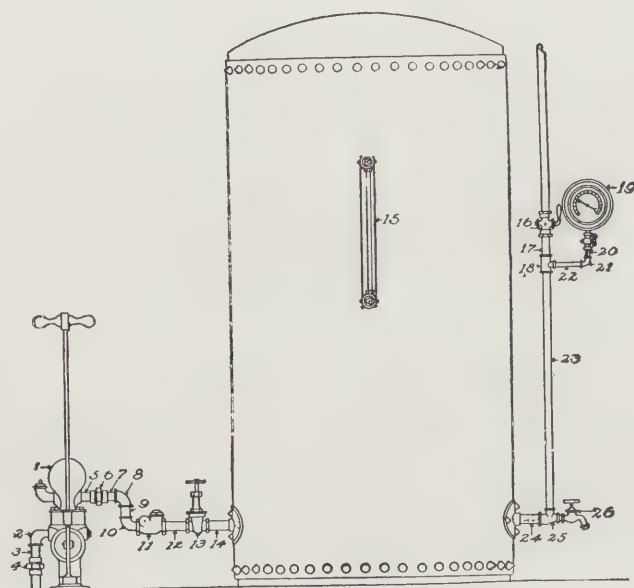
J-5442

No.	Diam. of Shank Inches
65A	$\frac{3}{8}$
65B	$\frac{1}{2}$

Price Each
.....
.....

# PNEUMATIC WATER SUPPLY SYSTEMS HAND PUMP OUTFIT

No. 100



J-5444

Complete outfit, as shown, with vertical tank and the following accessories:

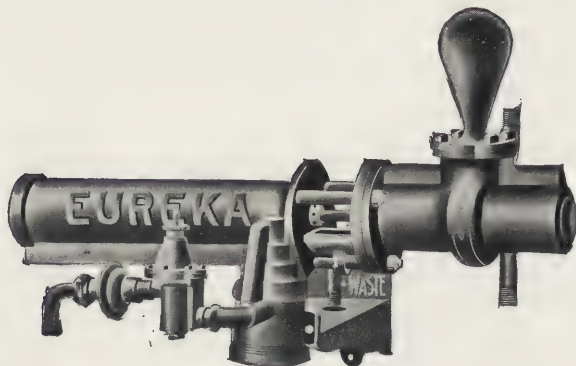
- |  |                                       |
|--|---------------------------------------|
| 1. Double-acting hand force pump with air intake cock, 3x4½-inch brass-lined cylinder. | 13. 1-inch brass gate valve.          |
| 2. 1¼-inch galvanized street ell.  | 14. 1x4-inch galvanized nipple.       |
| 3. 1¼-inch galvanized short nipple.  | 15. ½-inch R. B. I. W. water gauge.   |
| 4. 1¼-inch galvanized union.   | 16. ⅝-inch R. B. stop and waste cock. |
| 5. 1-inch galvanized short nipple.   | 17. ¾x4-inch galvanized nipple.       |
| 6. 1-inch galvanized union.  | 18. ¾x¾x¼-inch galvanized tee.        |
| 7. 1-inch galvanized short nipple.   | 19. 5-inch I. C. pressure gauge.      |
| 8. 1-inch galvanized ell.  | 20. ¼-inch galvanized short nipple.   |
| 9. 1-inch galvanized short nipple.   | 21. ¼-inch galvanized ell.            |
| 10. 1-inch galvanized street ell.  | 22. ¼x4-inch galvanized nipple.       |
| 11. 1-inch brass check valve.  | 23. ¾x30-inch galvanized pipe.        |
| 12. 1x4-inch galvanized nipple.  | 24. 1x4-inch galvanized nipple.       |
|  | 25. 1x½x¾-inch galvanized tee.        |
|  | 26. ½-inch R. B. hose bibb.           |

No. 100, Complete Hand Pump Outfit, as listed above, with 30-inch by 6-foot Pneumatic Pressure Tank; Capacity, 220 Gallons, each. ....

NOTE.—Larger or smaller tanks may be substituted at a difference in price, corresponding to regular pneumatic pressure tank list. Can also be furnished with horizontal tank.

## EUREKA HYDRAULIC WATER PUMPS

WITH CITY WATER PRESSURE REGULATOR



J-5446

No.	CYLINDERS, INCHES		Stroke Inches	DIMENS. OVER ALL, IN.		Weight Pounds	PRICE, EACH	
	Power	Suction		Length	Height		With City Water Pr. Reg.	With Auto. Cut-off
9	2½	1¾	5	25	13	45	90.00	100.00
10	2½	2½	5	25	13	45½	90.00	100.00
10½	2½	3⅛	6	28	17	55	110.00	120.00
11	3⅛	3⅛	6	28	17	66	130.00	140.00
12	3¾	3¾	6	29	18	87	150.00	160.00
13	3¾	2¾	6	29	18	85	150.00	160.00

### CAPACITIES, PUMPING TO A HEIGHT OF 15 FEET

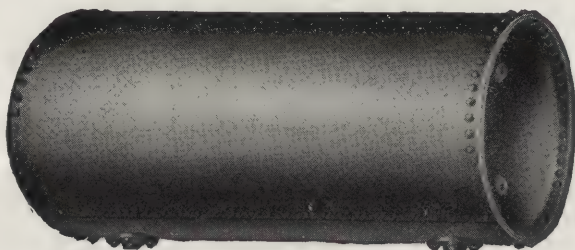
No.	City Water Pressure Pounds	Water Pumped per Hour Gallons	Water Used Gallons	Extreme Pumping Height Feet	Extreme Height with City Press., Ft.	SIZE OF PIPE TO USE, INCHES		
						City Water	Waste	Dis- charge
9	20	75	170	80	160	½	¾	¾
9	30	100	210	120	240	½	¾	¾
9	40	120	250	160	320	½	¾	¾
10	30	120	130	60	120	½	¾	¾
10	40	160	170	80	160	½	¾	¾
10½	50	200	170	60	120	½	¾	¾
11	30	175	185	60	120	½	1	1
11	40	230	245	80	160	½	1	1
12	30	250	265	60	120	¾	1	1
12	40	300	320	80	160	¾	1	1
13	20	120	250	80	160	¾	1	1
13	30	190	390	120	240	¾	1	1
13	40	220	480	160	320	¾	1	1

When hydraulic pumps are ordered by number only, same will be furnished with city water pressure regulator. If the automatic cut-off is wanted, add the letter "A" to number when ordering.

# HYDRO-PNEUMATIC PRESSURE TANKS DOUBLE RIVETED FOR DOMESTIC WATER SUPPLY SYSTEMS

Tested to 125 Pounds Air Pressure and Guaranteed for 75 Pounds Working Pressure

HORIZONTAL OR VERTICAL



J-5450

## MANUFACTURERS' STANDARD LIST, ADOPTED JANUARY 1, 1920

Size		Approx. Capacity Gallons	Approx. Weight Pounds	Price Black Each	Size		Approx. Capacity Gallons	Approx. Weight Pounds	Price Black Each
Diam. Inches	Length Feet				Diam. Inches	Length Feet			
24	5	120	390	120.00	36	14	735	1380	380.00
24	6	140	440	135.00	42	8	575	1370	365.00
24	10	245	660	204.00	42	10	720	1630	425.00
30	6	220	590	172.00	42	12	865	1880	480.00
30	8	295	720	212.00	42	14	1000	2150	545.00
30	10	365	850	244.00	48	10	940	1930	490.00
36	6	315	730	205.00	48	14	1300	2540	620.00
36	8	420	890	255.00	48	16	1500	2830	690.00
36	10	525	1050	295.00	48	20	1880	3440	835.00
36	12	630	1200	330.00	48	24	2260	4018	965.00

Unless specified horizontal in the order, tanks six feet long will be shipped vertical pattern.

## WATER GLASSES

Vertical tanks are tapped for 14-inch water glass.

All horizontal tanks are tapped for water gauge in concave head as follows:

Diameter Tank.....	inches	24	30	36	42	48
Length Water Glass.....	"	12	14	16	20	24

Tanks 24 and 30 inches in diameter have 1-inch tappings, 36-inch tanks have 1¼-inch tappings, 42-inch tanks have 1½-inch tappings and 48-inch tanks have 1½-inch tappings, located as shown in cuts.

All water gauge tappings are one-half inch.

## MANHOLES AND HANDHOLES

Manhole: In head, 30.00. In shell, 45.00.

Handhole: In head, 8.00. In shell, 8.00.

Manhole in head adds to weight of tank 100 pounds, and in shell 200 pounds.

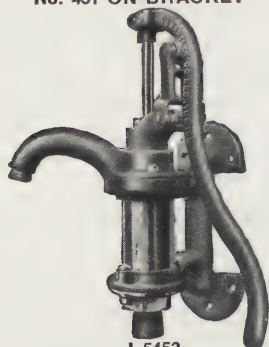
## FLANGED OPENINGS

Size.....	inches	1½	2	2½	3	3½	4	5	6
Price.....	each	6.00	8.00	8.00	9.00	9.00	10.00	15.00	18.00

Reliance Steel Tanks are regularly furnished with flanged openings. For special and extra openings add the above list prices.



## PUMPS

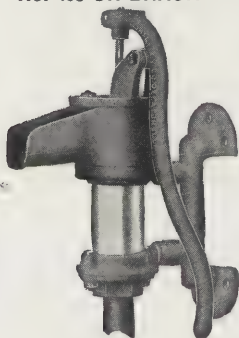
**HARTLEY FORCE PUMPS**  
**No. 451 ON BRACKET**


J-5452

Can be installed on either end or side of sink. Spout and handle can be set at any angle. Requires no base.

Has polished brass cylinder, solid brass rod, brass stuffing box, brass valve seats; all bolts fitted with brass nuts. Spout threaded to fit  $\frac{3}{4}$ -inch garden hose; suction tapped  $1\frac{1}{4}$  inches; 4-inch stroke. Price.....each 8.00

Instead of spout, Nos. 451 and 451B, can be furnished with one-inch tapped opening for forcing water to upper floor.

**HARTLEY PITCHER SPOUT PUMPS**
**No. 453 ON BRACKET**


J-5454

Delivers a continuous stream free from all force or splash. Spout and handle adjustable to any angle.

Has polished brass cylinder, solid brass rod, brass stuffing box, brass valve seats; all bolts fitted with brass nuts. Suction tapped  $1\frac{1}{4}$  inches; 4-inch stroke. Price.....each 8.00

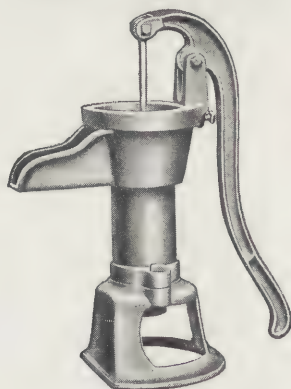
Can be furnished with base instead of bracket at same price.

**HARTLEY FORCE PUMPS**  
**No. 451B ON BASE**


J-5456

To set on drain board or other support. Spout and handle can be set at any angle.

Has polished brass cylinder, solid brass rod, brass stuffing box, brass valve seats; all bolts fitted with brass nuts. Spout threaded to fit  $\frac{3}{4}$ -inch garden hose; suction tapped  $1\frac{1}{4}$  inches; 4-inch stroke. Price.....each 8.00

**PITCHER SPOUT PUMPS**  
**REVOLVING CLOSED TOP**


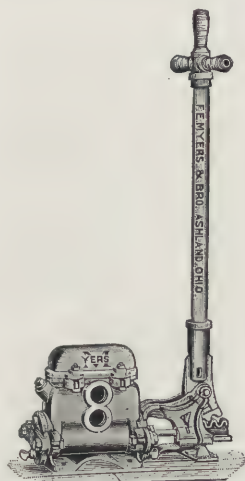
J-5458

No.	Size Cyl. In.	Size Pipe Con. In.	PRICE EACH	
			Iron Cylinder	Brass Lined
2	3	$1\frac{1}{4}$	4.75	7.25
3	$3\frac{1}{2}$	$1\frac{1}{4}$	5.25	8.00
4	4	$1\frac{1}{2}$	6.25	9.00
5	$4\frac{1}{2}$	2	9.50	12.50

Regularly furnished fitted for iron pipe. Lead pipe connections will be furnished at extra cost, when so ordered.

## FORCE AND BOILER FEED PUMPS

### MYERS COG GEAR FORCE PUMPS



J-5460

Fitted with brass-lined cylinder, brass valve seats and rubber faced valves. The suction valve is removed through the discharge valve opening. The piston rod is brass covered with heavy brass stuffing nut. Suction and discharge pipes attach to either side of the pump. The cog gear handle reduces the power required to operate the pump 33 1/3 per cent.

No.	Diam. Cyl. In.	Suction In.	Discharge In.	Price, Brass Lined Each
288	3x4 1/2	1 1/4	1 1/4	12.50

Can be furnished with Intake Air Valve.

### HORIZONTAL DOUBLE ACTING FORCE PUMPS



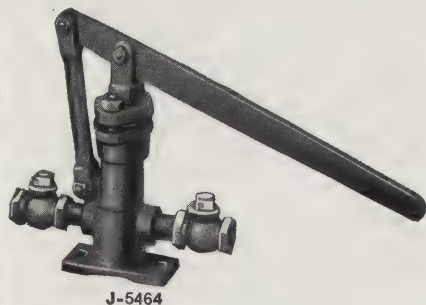
J-5462

For supplying water to pressure and open storage tanks from shallow wells and cisterns not over 25 feet deep.

Has a handle which can be placed at either end of pump by interchanging the cylinder heads. When used on Pressure Tanks, remove the drainage plug under inlet or suction, and screw into the 1/4-inch opening an Intake Air Valve.

No.	Diam. Cyl. In.	Suction In.	Discharge In.	PRICE, EACH	
				Iron	Brass Lined
2	2 1/2	1 1/4	1	16.00	18.50
4	3	1 1/4	1	18.00	21.00
6	3 1/2	1 1/2	1 1/4	20.00	23.50

A small extra charge is made for Intake Air Valves.



J-5464

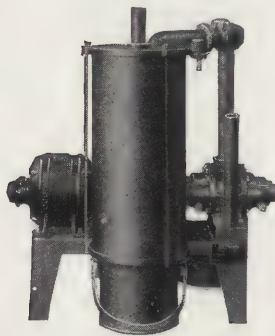
### DEMING BOILER FEED PUMPS

This pump is convenient also for testing boilers and forcing out water pipes, as a pressure of 175 to 200 pounds can be attained. It is adapted for filling cold boilers as well as a reserve hand boiler feed if the injector refused to work.

Cyl. In.	Stroke In.	Length of Lever In.	Suction In.	Discharge In.	Price Each
1 1/2	3	24	3/4	3/4	10.00

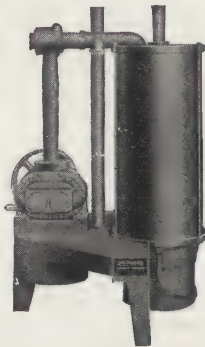
## ARCO WAND VACUUM CLEANERS

Nos. 341 AND 361



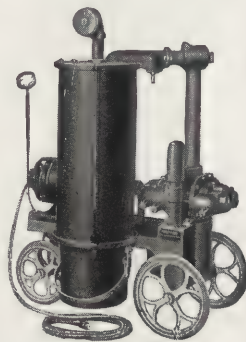
J-5506

Nos. 34, 36 AND 48



J-5508

Nos. 341T AND 361T



J-5510

No. 34. One-sweeper capacity without motors. Normal pump speed, 1150 r. p. m. Length, 29; width, 20; height, 41 inches. Shipping weight, 340 pounds.

Price, with No. 3 Equipment. . . . . **150.00**

No. 36. Capacity, one-sweeper. Normal pump speed, 1150 r. p. m. Length, 32; width, 22; height, 50 inches. Shipping weight, 490 pounds.

Price, with No. 4 Equipment. . . . . **200.00**

No. 48. Capacity, one-sweeper. Normal pump speed, 650 r. p. m. Length, 35; width, 25; height, 54 inches. Shipping weight, 700 pounds.

Price, with No. 5 Equipment. . . . . **360.00**

### WITH MOTORS

No. 341. Capacity, one-sweeper.  $\frac{1}{2}$  h. p. motor; D. C. 110 or 220 volts, or A. C. single-phase, 60 cycles, 110 or 220 volts. Length, 36; width, 21; height, 41 inches. Shipping weight, 430 pounds.

Price, with No. 3 Equipment. . . . . **240.00**

No. 361. Capacity, one-sweeper. 1 h. p. motors; D. C. 110 or 220 volts, or A. C. single, two or three-phase, 60 cycles, 110 or 220 volts. Length, 43; width, 23; height, 50 inches. Shipping weight, 600 pounds.

Price, with No. 4 Equipment. . . . . **350.00**

No. 481. Capacity, one-sweeper. 2 h. p. motor; D. C. 110 or 220 volts; or A. C. single-phase, 60 cycles, two or three phase, 60 or less cycles, 110 or 220 volts. Length, 58; width, 24; height, 54 inches. Shipping weight, 1050 pounds.

Price, with No. 5 Equipment. . . . . **590.00**

No. 692. Capacity, two-sweeper. 3 h. p. motor; D. C. any voltage, or A. C. any phase cycle or voltage. Length, 72; width, 29; height, 72 inches. Shipping weight, 2000 pounds.

Price, with No. 6 Equipment. . . . . **1200.00**

### ON TRUCKS, WITH MOTORS

No. 341T, same as No. 341. Length, 37; width, 24; height, 48 inches. Shipping weight, 500 pounds. Machine only, 385 pounds.

Price, with No. 30T Equipment, One Inlet Coupling and 25-foot Electric Cable Attached. . . . . **315.00**

No. 361T, same as No. 361. Length, 47 inches; width, 26; height, 55 inches. Shipping weight, 680 pounds. Machine only, 550 pounds.

Price, with No. 30T Equipment, One Inlet Coupling and 50-foot Electric Cable Attached to Machine. . . . . **395.00**

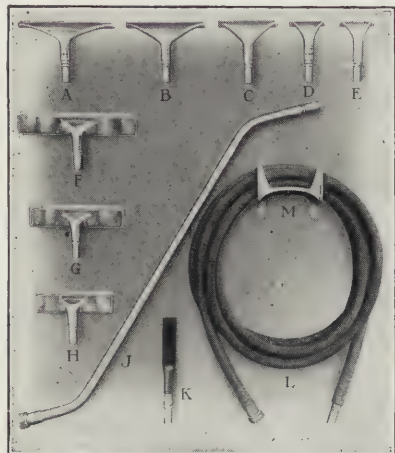
No. 481T, same as No. 481. Length, 57; width, 28; height, 62 inches. Shipping weight, 1100 pounds. Machine only, 925 pounds.

Price, with No. 50T Equipment, One Inlet Coupling and 50-foot Electric Cable Attached to Machine. . . . . **730.00**



## ARCO WAND VACUUM CLEANERS

### CLEANING TOOLS



J-5512

#### No. 5 EQUIPMENT, FURNISHED WITH MACHINES Nos. 48, 481

- J—One wand (handle), No. 5.
- K—One tuft cleaner.
- D—One 4-inch renovator.
- A—One 12-inch renovator.
- F—One 15-inch felted sweeper.
- M—One hose bracket.
- Two 25-foot lengths 1¼-inch hose and couplings.

#### No. 50-T EQUIPMENT, FURNISHED WITH No. 481-T

- One wand (handle), 1¼-inch hose size.
- One tuft cleaner, 1¼-inch hose size.
- One 4-inch renovator (adjustable suction type), 1¼-inch hose size.
- One 12-inch renovator (adjustable suction type), 1¼-inch hose size.
- One 12-inch floor brush, 1¼-inch hose size.
- One 35-foot length 1¼-inch hose with coupling.

#### No. 3 EQUIPMENT, FURNISHED WITH MACHINES Nos. 34, 341

- J—One wand (handle), No. 3.
- K—One tuft cleaner.
- C—One 7-inch renovator.
- H—One 10-inch felted sweeper.
- M—One hose bracket.
- L—One 35-foot length 1-inch fabric hose and coupling.

#### No. 4 EQUIPMENT, FURNISHED WITH MACHINES Nos. 36, 361

- J—One wand (handle), No. 3.
- K—One tuft cleaner.
- E—One 4-inch renovator.
- B—One 10-inch renovator.
- G—One 12-inch felted sweeper.
- M—One hose bracket.
- Two 25-foot lengths 1-inch hose and couplings.

#### No. 6 EQUIPMENT, FURNISHED WITH MACHINE No. 692

- J—Two wands (handles), No. 5.
- K—Two tuft cleaners.
- D—Two 4-inch renovators (adjustable suction type).
- A—Two 12-inch renovators (adjustable suction type).
- F—Two 15-inch felted sweepers.
- M—Two hose brackets.
- Four 25-foot lengths 1½-inch hose and couplings.

#### No. 30-T EQUIPMENT, FURNISHED WITH Nos. 341-T AND 361-T

- One wand (handle), 1¼-inch hose size.
- One tuft cleaner, 1¼-inch hose size.
- One 4-inch renovator, 1¼-inch hose size.
- One 10-inch renovator, 1¼-inch hose size.
- One 25-foot length 1¼-inch hose with coupling.

No.	HOSE		PIPING	
	Lengths	Size Inches	Max. Lengths, Feet	Size Inches
341,34	1-35 ft.	1	100	1½
361,36	1-75 "	1	200	1½

No.	HOSE			PIPING		
	Lengths	Size Inches	Max. Length, Feet	Lengths, Feet	Size Inches	
	1-100 ft.	1¼	350	2		
	2-100 "	1½	500†	3		

Exhaust pipe should be same size as cleaner main.

Maximum length is distance measured from machine to the most remote inlet coupling, regardless of the number of mains and risers used.

†Or either of the following combinations can be used. 320 feet of 3-inch main connected to any 2½-inch riser not exceeding 80 feet in height; or 120 feet of 3-inch main connected to any 2½-inch riser not exceeding 160 feet in height.



## ARCO WAND VACUUM CLEANERS

### EXTRA EQUIPMENT

The following prices apply to tools and parts ordered separately.

### TOOLS AND PARTS

Description	Hose Size Inches	Price Each
Brush 12-inch Floor.....	1	7.45
" 12 " ".....	1 1/4 or 1 1/2	7.85
Duster Adjustable Back.....	1	8.10
" " ".....	1 1/4 or 1 1/2	8.50
Felted Sweeper, 10-inch.....	1	4.90
" " 12 ".....	1	6.70
" " 12 ".....	1 1/4 or 1 1/2	8.50
" " 15 ".....	1 1/4 " 1 1/2	10.50
" " 18 ".....	1 1/4 " 1 1/2	13.70
Felts for 10-in. Felted..	1	2.70
" " " Sweeper.....	1	3.25
" 12-inch Felted Sweeper.....	1	3.25
" 15 " ".....	1 1/4 or 1 1/2	4.80
" 18 " ".....	1 1/4 " 1 1/2	6.00
Renovator 4-inch.....	1	3.10
" 4 ".....	1 1/4 or 1 1/2	3.75

Description	Hose Size Inches	Price Each
Renovator 4-inch Adj. Suction.....	1 1/4 or 1 1/2	4.40
" 7 ".....	1	3.65
" 10 ".....	1	4.20
" 10 ".....	1 1/4 or 1 1/2	4.85
" 12 ".....	1 1/4 " 1 1/2	5.40
" 12 " Adj. Suction.....	1 1/4 " 1 1/2	6.05
Tuft Cleaner.....	1	1.20
" ".....	1 1/4 or 1 1/2	1.45
Wand (Handle) No. 3.....	1	5.10
" " " 5.....	1 1/4 or 1 1/2	7.15
Wall Handle 5 Feet Long.....	1	5.40
" " 5 ".....	1 1/4 or 1 1/2	6.75
Wood Face Sweeper 12-inch.....	1 1/4 " 1 1/2	3.60
" " " 15 ".....	1 1/4 " 1 1/2	4.00
" " " 18 ".....	1 1/4 " 1 1/2	4.40

### INLET COUPLINGS

Inlet Couplings (Wall or Floor).....	1	2.25
" " Lock and Key.....	1	3.00
" " (Wall or Floor).....	1 1/4	2.95
" " Lock and Key.....	1 1/4	3.70
" " (Wall or Floor).....	1 1/2	3.30
" " Lock and Key.....	1 1/2	4.05
" Coupling Bushings, 1 1/2x1 1/4 inches.....	1	.25
" " " 2 x1 1/2 ".....	1 1/4	.35
" " " 2 1/2x2 ".....	1 1/2	.50

Inlet Coupling Spacing Collars, Brass for Concealed Piping:		
Length, 3/8 inch.....	1-1 1/4 or 1 1/2	.50
" 1/2 ".....	1-1 1/4 " 1 1/2	.55
" 3/4 ".....	1-1 1/4 " 1 1/2	.65
" 1 ".....	1-1 1/4 " 1 1/2	.75
" 1 1/4 inches.....	1-1 1/4 " 1 1/2	.85
" 1 3/4 ".....	1-1 1/4 " 1 1/2	.95
" 2 1/4 ".....	1-1 1/4 " 1 1/2	1.10
Inlet Coupling, Fitting Sleeve, Cast Iron for Exposed Piping:		
1 1/2, 2, or 2 1/2 inches...	1-1 1/4, 1 or 1 1/2	.50

Description	Hose Length Feet	Price Each
Hose, 1 -inch with Coupling.....	15	8.40
" 1 " ".....	25	12.90
" 1 " ".....	35	17.40
" 1 1/4 " ".....	15	11.30
" 1 1/4 " ".....	25	17.30
" 1 1/4 " ".....	35	23.30
" 1 1/2 " ".....	15	12.90
" 1 1/2 " ".....	25	19.40
" 1 1/2 " ".....	35	25.90

Description	Price Each
Hose, 1-inch, without Coupling.....	.45
Hose, 1 1/4-inch, without Coupling.....	.60
Hose, 1 1/2-inch, without Coupling.....	.65
Hose Coupling, 1 -inch.....	1.65
" " 1 1/4 ".....	2.30
" " 1 1/2 ".....	3.15
" Bracket, 1 ".....	.75
" " 1 1/4 or 1 1/2-inch...	1.00

## LEAD MELTING FURNACES

### ON WHEELS WITH DOOR

#### No. 1

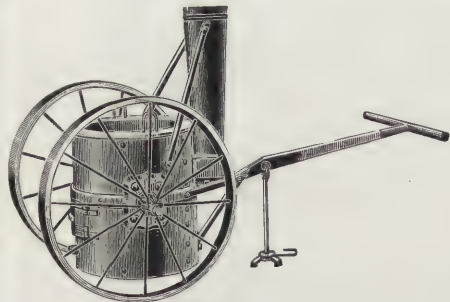
Diameter,  $21\frac{1}{2}$  inches; height, 24 inches; diameter of pot,  $16\frac{3}{4}$  inches; depth of pot, 11 inches; capacity, lead, 700 pounds.

Price.....each 90.00

#### No. 2

Diameter, 16 inches; height, 24 inches; diameter of pot,  $11\frac{1}{2}$  inches; depth of pot, 8 inches; capacity, lead, 260 pounds.

Price.....each 80.00



J-5552

### ON WHEELS WITH DOOR AND POT RACK

#### No. 1

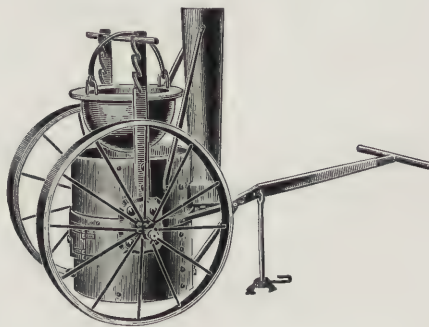
Diameter,  $21\frac{1}{2}$  inches; height, 24 inches; diameter of pot,  $16\frac{3}{4}$  inches; depth of pot, 11 inches; capacity, lead, 700 pounds.

Price.....each 100.00

#### No. 2

Diameter, 16 inches; height, 24 inches; diameter of pot,  $11\frac{1}{2}$  inches; depth of pot, 8 inches; capacity, lead, 260 pounds.

Price.....each 80.00



J-5554

### ON LEGS WITH DOOR

#### No. 1

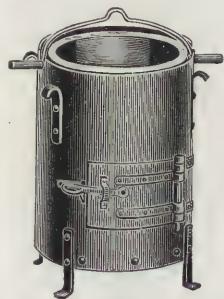
Diameter,  $21\frac{1}{2}$  inches; height, 24 inches; diameter of pot,  $15\frac{1}{2}$  inches; depth of pot,  $10\frac{1}{2}$  inches; capacity, lead, 600 pounds.

Price.....each 60.00

#### No. 2

Diameter, 16 inches; height, 24 inches; diameter of pot,  $11\frac{1}{2}$  inches; depth of pot, 8 inches; capacity, lead, 260 pounds.

Price.....each 50.00



J-5556

### ON LEGS WITH DOOR AND SMOKESTACK

#### No. 1

Diameter,  $21\frac{1}{2}$  inches; height, 24 inches; diameter of pot,  $15\frac{1}{2}$  inches; depth of pot,  $10\frac{1}{2}$  inches; capacity, lead, 600 pounds.

Price.....each 70.00

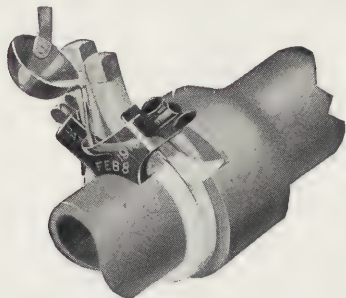
#### No. 2

Diameter, 16 inches; height, 24 inches; diameter of pot,  $11\frac{1}{2}$  inches; depth of pot, 8 inches; capacity, lead, 260 pounds.

Price.....each 58.00

## PLUMBERS' TOOLS

### PEERLESS LEAD JOINT RUNNERS



J-5558

This clamp is provided with a liberal pouring cup which receives the metal and delivers it exactly where it is wanted without waste, leaving a smooth, finished job. In operating this clamp it is only necessary to release one end of the rope. The steel thumbscrews work on a multiple thread, making the operation rapid.

No.	For Pipe Inches	Price Each	No.	For Pipe Inches	Price Each
1	2-4	2.30	3	6-10	4.70
2	2-6	2.45	4	10-14	6.20

Nos. 1 and 2 can be furnished with the new Wilkins improved spring clamp if desired.

### LADLES



J-5560

Size Inches	Price per Doz	Size Inches	Price per Doz.
2 1/2	5.00	3 1/2	7.00
3	6.00	...	....

### SOLDER POTS



J-5562

Diam. at Top Inches	Price Each	Diam. at Top Inches	Price Each
4	.70	6	1.40
5	.80	8	2.40

### POURING POTS



J-5564

No.	1	2
Size	6 3/4 x 8	10 x 10
Price	each 4.50	7.50

### REGULAR SOIL TEST PLUGS



J-5566

Will make a perfect joint on standard or extra heavy pipe.

Size In.	Price Each	Size In.	Price Each	Size In.	Price Each
2	1.00	5	2.00	10	8.00
3	1.25	6	2.50	..	....
4	1.50	8	4.50	..	....

### DOUBLE SOIL TEST PLUGS



J-5568

The double plug is for the two ends of sanitary tee or Y. Will make a perfect joint on standard or extra heavy pipe.

Size In.	Price Each	Size In.	Price Each	Size In.	Price Each
2	2.50	5	6.00	10	14.00
3	3.50	6	7.50	12	17.00
4	4.50	8	11.00	..	....

### EXTRA RUBBERS

#### FOR TEST PLUGS

Size In.	Price Each	Size In.	Price Each	Size In.	Price Each
2	.50	5	1.80	8	6.50
3	1.00	6	2.40	10	11.80
4	1.40	7	4.00	..	....

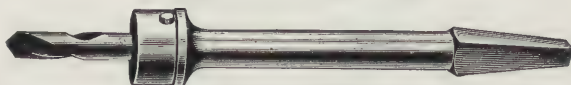
## COMBINATION SHELL DRILLS, ETC.

### COMPLETE COMBINATION SHELL DRILL



J-5570

### STEM AND CENTER DRILL



J-5572

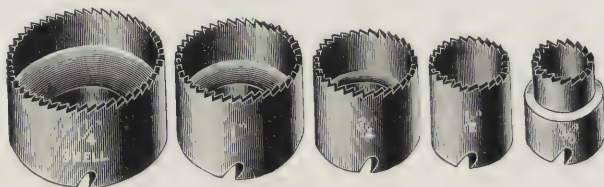
### COMPLETE COMBINATION SHELL DRILLS

Number of Set.....	B	C	D	E
Shells in Set I. P. Size.....inches	$\frac{3}{8}, \frac{1}{2}$	$\frac{3}{8}$ to $\frac{3}{4}$	$\frac{3}{8}$ to 1	$\frac{3}{8}$ to $1\frac{1}{4}$
Price, Set Complete.....each	3.25	4.50	6.00	8.50
Number of Set.....	F	G	H	
Shells in Set I. P. Size.....inches	$\frac{3}{8}$ to $1\frac{1}{2}$	$\frac{3}{8}$ to 2	$\frac{3}{8}$ to $2\frac{1}{2}$	
Price, Set Complete.....each	11.50	15.50	20.50	

### STEMS AND CENTER DRILLS

Price, Stem with Center Drill to fit Shells $\frac{3}{8}$ to 3 Inches.....	each	.75
" $\frac{1}{4}$ -inch Threaded Center Drills for Stems.....	"	.25

### COMBINATION DRILL SHELLS



J-5574

Iron Pipe Size.....inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3
Outside Diameter....."	$\frac{5}{8}$	$1\frac{1}{8}$	$1\frac{3}{8}$	$1\frac{1}{2}$	$1\frac{5}{8}$	$2\frac{1}{8}$	$2\frac{5}{8}$	$3\frac{5}{8}$
Price, Shell only.....each	1.25	1.35	1.75	2.25	2.50	3.50	5.00	6.00

### BIT BRACE BURRING REAMERS



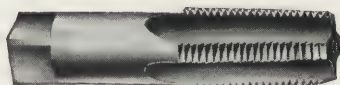
J-5576

Number.....	241	242	$242\frac{1}{2}$	244
Reams Pipe.....inches	$\frac{1}{8}$ to $\frac{1}{2}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{4}$	$\frac{1}{4}$ to 2
Price.....each	1.00	1.25	1.50	3.00



## PIPE TAPS AND REAMERS

## PIPE TAPS



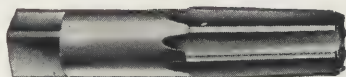
J-5578

Right and left hand pipe taps are furnished at the same price.

Pipe Size Inches	PRICE, EACH	
	Carbon Steel	High Speed Steel
1/8	1.00	1.20
1/4	1.20	1.80
3/8	1.60	2.60
1/2	2.00	4.00
5/8	2.80	**
3/4	2.80	6.00
7/8	4.40	**
1	4.40	9.00
1 1/4	5.00	14.00
1 1/2	6.60	21.00
1 3/4	8.00	**
2	10.00	32.00
2 1/4	12.00	**

\*\*Prices upon application.

## PIPE REAMERS



J-5580

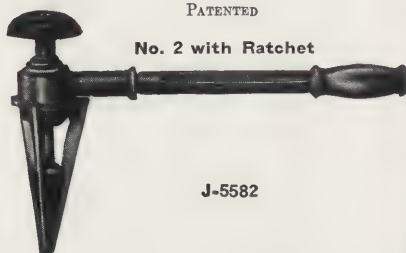
Pipe Size Inches	PRICE, EACH	
	Carbon Steel	High Speed Steel
1/8	1.00	1.20
1/4	1.20	1.80
3/8	1.60	2.60
1/2	2.00	4.00
5/8	2.80	**
3/4	2.80	6.00
7/8	4.40	**
1	4.40	9.00
1 1/4	5.00	14.00
1 1/2	6.60	21.00
1 3/4	8.00	**
2	10.00	32.00
2 1/4	12.00	**

\*\*Prices upon application.

## MUELLER PIPE END REAMERS

PATENTED

No. 2 with Ratchet



J-5582

The ends must be reamed after cutting if the full carrying capacity is to be retained.

Pipe cutters leave a burr which is an obstruction to a free flow through the pipe, and reduces the pipe area.

The ratchet used with No. 2 is so constructed that the strain is divided into half a dozen bearings, greatly increasing the durability of the tool. Reams pipe from 3/8 to 3 inches, inclusive.

Size of Pipe Inches	Inside Diameter Inches	Diameter at Burr Inches	Per Cent Loss of Area if Not Reamed
1/4	23/64	1/4	59.4
3/8	17/32	3/8	43.8
1/2	5/8	3/4	31.2
3/4	53/64	45/64	28.0
1	63/64	64/64	22.5
1 1/4	1 3/8	1 3/2	13.2
1 1/2	1 39/64	1 31/64	15.0
2	2 1/16	1 61/64	7.01

Price, No. 2, with Ratchet. . . . . each 7.50

" Small Pattern, with Ratchet  
3/8 to 1 1/4 Inches. . . . . each 5.00

## COMBINED DRILL, REAMER AND TAP



J-5584

Diam. Inches	Price Each	Diam. Inches	Price Each	Diam. Inches	Price Each
1/2	3.00	1	6.00	1 1/2	8.50
3/4	4.50	1 1/4	7.25	2	10.75

## PLUMBERS' TOOLS

### STAR HACK SAW BLADES



J-5586

One of the most essential tools of the mechanic who works with metal is his hack saw blade. A good blade which cuts fast and wears long, so as not to require frequent changing, means a considerable saving of time in the course of a day's work and a considerable saving of patience.

Blades with 14 teeth to the inch are supplied unless 24 teeth or fine is specified.

Length Inches	Width Inches	Price per Doz.
6	$\frac{7}{16}$	.60
7	$\frac{7}{16}$	.65
8	$\frac{7}{16}$	.70
9	$\frac{7}{16}$	.75
10	$\frac{1}{2}$	.85
11	$\frac{1}{2}$	.95
12	$\frac{1}{2}$	1.00
*12	$\frac{5}{8}$	1.35

\*For power machine.

### Nos. 10 AND 11 ADJUSTABLE HACK SAW FRAMES



J-5588

A standard in hack saw frames. The style of adjustment is such as to give extra strength in the middle of the back where there is the greatest strain so that there is no danger of the frame bowing in the back. A knurled check nut screwing down and overlapping the end of the blade holds it in place while it is being inserted in the frame.

Adjustable for blades from 8 to 12 inches.

No.	Depth Under Back Inches	Price with One 10-inch Blade per Dozen
10	$2\frac{3}{8}$	28.00
11	$3\frac{1}{2}$	29.00

### No. 4 CAST IRON HACK SAW FRAMES



J-5590

Black enameled cast-iron frame. Blades are strained by thumb nut and screw stud and may be faced in four directions.

No.	Takes Blade Inches	Depth Under Back Inches	Price without Blades per Doz.
4A	8	$2\frac{1}{4}$	6.00
4B	9	$2\frac{1}{4}$	6.00
4C	10	$2\frac{1}{4}$	6.30
4D	12	$2\frac{1}{4}$	7.40

### No. 8 PLUMBERS' COMPASS SAWS

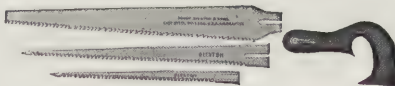


J-5592

Equipped with an extra heavy blade, 16 gauge. Especially made for plumbers' use and rough, heavy work.

Size Inches	Price per Dozen	Size Inches	Price per Dozen
12	5.00	16	5.50
14	5.25	..	...

### No. 3 NEST OF SAWS



J-5594

Consists of one each, keyhole, compass and table or pruning saw.

Price, Handle and Tightener	per dozen	1.75
Price, Keyhole Blade, 10 Inches Long	per dozen	2.00
Price, Compass Blades, 14 Inches Long	per dozen	2.75
Price, Pruning Blades, 16 Inches Long	per dozen	5.50
Price, Nests, Complete	"	12.00

## PLUMBERS' TOOLS

### WIPING CLOTHS



J-5596

### BEST QUALITY HERRINGBONE TICKING, 16-PLY DRY

Size Inches	Price per Doz.	Size Inches	Price per Doz.
2 x2	2.45	3 1/2 x 3 1/2	2.70
2 1/2 x 2 1/2	2.45	4 x4	3.00
3 x3	2.45	.....	....

### GENUINE ENGLISH MOLESKIN 8-PLY DRY

2 x2	3.55	3 1/2 x 3 1/2	3.90
2 1/2 x 2 1/2	3.55	4 x4	4.10
3 x3	3.55	.....	....

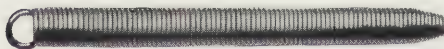
### COPPER SOIL CUPS



J-5598

Price, with Handle.....per doz.	5.00
" without Handle.... " .....	4.50

### BENDING SPRINGS



J-5600

Size.....inches	1 1/4	1 1/2	2
Price.....each	1.25	1.50	2.00

### LEVELS



J-5602

Size.....feet	2
Price.....each	1.00

### BENCH OILERS

#### COPPERIZED STEEL



J-5604

Steel oilers are made from 20-gauge cold-rolled steel with high-grade clock spring steel bottoms. Heavy electro-copper-plated inside and out.

No.	Cap. Pints	Spout Inches	Price per Doz.
12	1/4	2 3/4	4.50
13	1/3	3	5.50
13A	1/3	5	6.00
14	1/3	9	6.50
14A	1/2	3	7.50
14AA	1/2	5	8.00
14B	1/2	9	8.50
15	1	3	9.25
15A	1	5	9.75
16	1	9	10.50

All oilers can be fitted with spouts 2 1/2 to 18 inches in length. These spouts are interchangeable and will fit other styles of oilers.

### GAS FITTERS' AUGERS



J-5606

Size Auger Inches	Size for Pipe Inches	Price Each	Size Auger Inches	Size for Pipe Inches	Price Each
5/8	1/4	.80	1 1/2	1	1.92
3/4	3/8	1.00	1 3/4	1 1/4	2.25
7/8	1/2	1.12	2	1 1/2	2.50
1 1/4	3/4	1.60	2 1/2	2	3.25

## PLUMBERS' TOOLS

### TAP BORERS



J-5608

Price.....each .50

### OVAL SHAVE HOOKS



J-5616

Price.....each .50

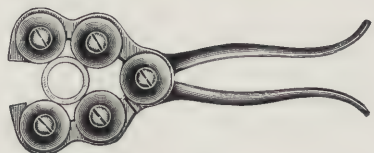
### LEAD PIPE EXPANDING PLIERS



J-5610

Price.....each 2.00

### LEAD PIPE CUTTERS



J-5618

Price, Nickel-plated.....each 2.50  
 " Japanned..... " 2.00

### CHIPPING KNIVES



J-5612

Size Blade.....inches	4½	5	6
Price.....each	.38	.42	.46

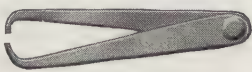
### COMPASSES



J-5620

Size.....inches	4	5	6	8
Price.....each	.55	.60	.70	.95

### OUTSIDE CALIPERS



J-5614

Size...inches	3	4	5	6	8
Price...each	.45	.50	.55	.60	.90

### WING DIVIDERS



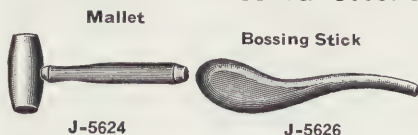
J-5622

Size.....inches	5	6	8	10
Price.....each	.95	.95	1.25	1.70



## PLUMBERS' TOOLS

### MALLETS AND BOSSING STICKS



Description.....	Boxwood Dogwood	
Price, Mallets, 3x5 In..... ea.		.46
" Bossing Sticks..... "		.75 .50

### DRIFT PLUGS



J-5628

Description.....	Boxwood Dogwood	
Price 1/2, 3/4, 1, 1 1/4, 1 1/2 and 2 Inches..... each		.15 .10

### BENDING PINS



No.....	1	2
Price..... each	.27	.27

### HATCHET COPPERS



J-5634

Price, Hatchet Coppers, 2 Pounds to Pair and Heavier.... per pound	.51
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### PLAIN BLOWPIPES



J-5636

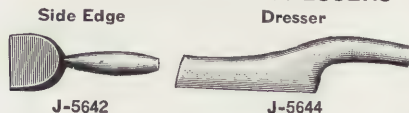
Price, 8, 9, 10 and 12-inch.... each	.21
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### SOIL BRUSHES AND DUSTERS



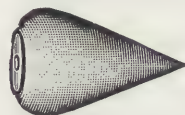
Price, Soil Brushes..... each	.07
" Dusters..... "	.59
" Pot Hooks..... "	.13

### SIDE EDGES AND DRESSERS



Description.....	Boxwood Dogwood	
Price, Side Edges..... each	.50	.34
" Dressers..... "	1.00	.67

### TURN PINS



J-5646

Description.....	Boxwood Dogwood	
Price, Nos. 1, 2 and 3..... ea.	.21	.11

### BENDING PINS



No.....	3	4
Price..... each	.27	.27

### SOLDERING IRONS



J-5652

Price, 1 1/2 Pounds to Pair.... per lb.	.47
" 2 " " and "	
Heavier..... per lb.	.43

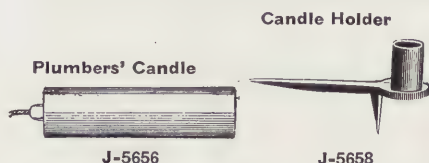
### ROUND IRONS



J-5654

No.....	1	2	3
Price..... each	.67	.84	1.00

### CANDLES AND CANDLE HOLDERS



Price, Plumbers' Candles.....	net
" Candle Holders..... each	.25

Price, 10 to 20 lb. Bladders..per lb.	.06
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## PLUMBERS' TOOLS

### STUB CALKING IRONS



J-5682

Price .....each .75

### OFFSET CALKING IRONS



J-5686

Price, Right or Left .....each 1.00

### SPRING PACKING IRONS



J-5690

Price .....each .80

### COLD CHISELS



J-5694

Cutting Size..... inches	1/2	5/8	3/4
Price..... each	.20	.25	.35
Cutting Size..... inches	7/8	1	...
Price..... each	.45	.60	...

### REGULAR CALKING IRONS



J-5684

Price .....each .90

### YARNING IRONS



J-5688

Price .....each .85

### PICKING IRONS



J-5692

Price .....each .85

### WOOD CHISELS



J-5696

Cutting Size..... inches	1/2	5/8	3/4
Price..... each	.55	.60	.70
Cutting Size..... inches	7/8	1	...
Price..... each	.75	.80	...

### CHISELS

#### FLOOR



J-5698

Cutting Size..... inches	2	2 1/2	3
Price..... each	.60	.70	.80

#### ROUND NOSE



J-5700

#### DIAMOND POINT



J-5702

#### CAPE

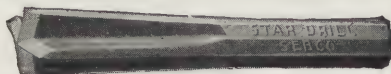


J-5704

Size..... inches	1/4	3/8	1/2	5/8	3/4	7/8	1
Price, Round Nose, Diamond Point or Cape Chisels.....each	.15	.20	.25	.30	.40	.50	.70

## BRICK AND STONE DRILLS

### SEBCO STAR DRILL, FOR BRICK AND STONE



**J-5706**

To meet the requirements of the man who drills the holes, and who heretofore was experiencing difficulty in obtaining a drill that will stand the severe test his work calls for, the manufacturers have endeavored to produce a tool that will stand the strain—and stand it thoroughly. The increasing demand for Star Drills has proven their reliability.

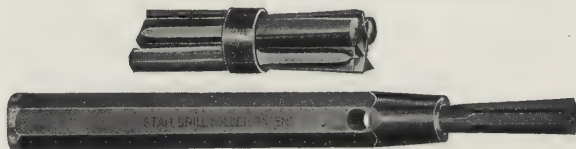
### STAR STONE DRILLS

Length, Inches	DIAMETER OF CUTTING EDGE, INCHES												
	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{1}{2}$	$1\frac{3}{4}$
12..per dozen	8.50	8.50	8.50	9.00	10.00	12.00	14.00	16.00	18.00	24.00	30.00	50.00	75.00
18.. “	11.00	11.00	11.00	11.50	12.50	15.00	17.50	20.00	22.50	28.00	35.00	56.00	81.00
24.. “	13.50	13.50	13.50	14.00	15.00	17.50	20.00	22.50	25.00	32.00	40.00	62.00	87.00

Drills of intermediate diameters take the next higher list.

Drills of larger diameters or longer furnished at proportionate list price.

### SEBCO STAR DRILL POINTS AND DRILL HOLDER



**J-5708**

This tool is used and preferred by up-to-date workmen because of its durability. A set comprises any assorted six drill points and one holder, neatly packed in a wooden box. These drills wear a long time before redressing is needed. Will drill  $2\frac{1}{2}$  to  $3\frac{1}{2}$  inches in depth. The set just fits the hip pocket. A man does not have to carry a full set of heavy drills with him to a job—with this set he can drill a hole from  $\frac{1}{4}$  to  $\frac{3}{4}$  inch quickly, easily and neatly.

### STAR DRILL POINTS

Diameter of Cutting Edge, inches	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{13}{32}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$
Price.....per dozen	8.50	8.50	8.50	8.50	9.00	9.00	10.00	12.00	14.00

### STAR DRILL HOLDERS

Price, $\frac{3}{4}$ -inch Octagon Steel, 6 inches Long.....per dozen	24.00
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The holder being  $\frac{3}{4}$  inch in diameter enables a good grip to be taken and strong blow struck, either of which is difficult with drills of smaller diameter.

The same holder can be used for all sizes of drill points.



## PLUMBERS' TOOLS

### GREASE BOXES



J-5710

Size.....	Small	Medium	Large
Price..per doz.	15.00	18.00	21.00

### POCKET SPIRIT LEVELS



J-5712

Price.....	each	.75
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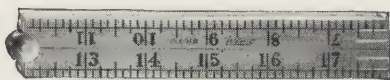
### MEASURING TAPES



J-5714

Length.....	feet	25	50
Price.....	per dozen	3.75	5.00

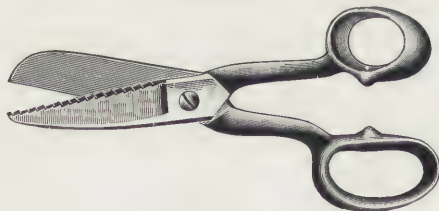
### FOUR-FOLD RULES



J-5716

Price, 2-foot, Plain.....	per dozen	4.00
" 2 " Brass Bound..	"	15.00

### BELT, RUBBER AND PACKING SHEARS



J-5718

These shears are of the highest grade steel and will cut leather or rubber belting, rubber hose, asbestos, packing and similar material much better than a knife.

Price.....	each	3.50
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### COMBINATION PLIERS



J-5720

Length Inches	PRICE, PER DOZEN		PRICE, EACH	
	Black	Nickel-plated	Extra Bolts	Extra Nuts
5	10.20	12.00	.08	.05
6	13.50	15.00	.08	.05
8	16.00	18.00	.08	.05
10	18.00	21.00	.10	.06
14	24.00	30.00	.10	.06

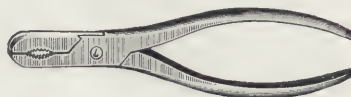
### GAS PLIERS



J-5722

Length Inches	PRICE, PER DOZEN	
	Black Handles	All Polished
8	12.00	15.00
9	14.00	17.00
10	15.00	18.00
12	18.00	21.00
14	24.00	27.00

### BURNER PLIERS



J-5724

Length Inches	PRICE, PER DOZEN	
	Polished	Nickel-plated
5	8.00	9.25
6	9.00	10.50
7	10.00	11.75

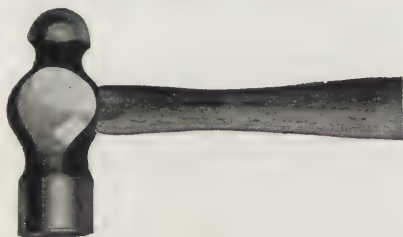
### FORGED STEEL TINNERS' SNIPS REGULAR PATTERN



J-5726

Length of Cut Inches	Length Over All Inches	Price per Pair	Length of Cut Inches	Length Over All Inches	Price per Pair
4 1/2	17	4.50	2 1/2	11	1.50
4 1/4	15 3/4	3.00	2 1/4	10 1/2	1.20
4	14 1/4	2.50	2	10	1.00
3 1/2	13 1/2	2.00	1 3/4	8 1/2	.90
3	12	1.75	...	....	....

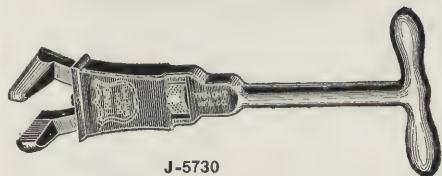
## RATCHET BRACES



**J-5728**

WEIGHT		Price Each
Pounds	Ounces	
	8	<b>1.20</b>
	12	<b>1.30</b>
<b>1</b>	0	<b>1.40</b>
<b>1</b>	4	<b>1.50</b>
<b>1</b>	8	<b>1.60</b>
<b>1</b>	12	<b>1.70</b>
<b>2</b>	0	<b>1.80</b>

## TRIMO BASIN WRENCHES



J-5730

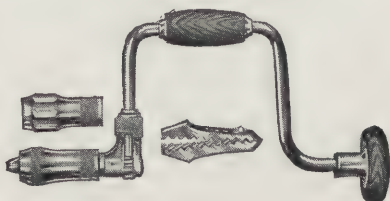
Price . . . . .	each	1.25
“ Extra Jaws . . . . .	“	.50
“ “ Nuts . . . . .	“	.20
“ “ Springs . . . . .	“	.10
“ “ Screws . . . . .	“	.20

## SCREWDRIVERS



J-5732

Length of Blade Inches	Price per Dozen	Length of Blade Inches	Price per Dozen
3	3.50	6	6.00
4	4.25	8	8.00
5	5.00	10	10.00



J-5734

Price, 10-inch Sweep.....each	<b>3.00</b>
"    12    "    "    ....."    "	<b>3.25</b>

## PLAIN BRACES

Price, 10-inch Sweep.....each	<b>1.75</b>
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## EXPANSION BITS



J-5736

Price, Small, Boring $\frac{1}{2}$ to $1\frac{1}{2}$ Inches . . . . .	each	<b>2.50</b>
Price, Large, Boring $\frac{7}{8}$ to 3 Inches, . . . . .	each	<b>3.50</b>

## EXTRA CUTTERS FOR EXPANSION BITS

Cutter No.	For Bit No.	Size Inches	Price per Doz.
1	1	$\frac{1}{8}$ to $\frac{7}{8}$	<b>3.00</b>
2	1	$\frac{7}{8}$ " $1\frac{1}{2}$	<b>3.75</b>
3	2	$\frac{7}{8}$ " $1\frac{3}{4}$	<b>5.25</b>
4	2	$1\frac{3}{4}$ " 3	<b>6.00</b>
5	2	3 " 4	<b>9.00</b>
6	2	4 " 5	<b>12.00</b>

## FILES



J-5738

Size.....inches	10	12	14
Price, Flat per doz.	<b>7.00</b>	<b>9.70</b>	<b>13.30</b>
“ Half Round			
.....per dozen	<b>9.10</b>	<b>11.80</b>	<b>15.50</b>

## RASPS



J-5740

Size . . . . . inches	10	12	14
Price, Half Round . . . . . per dozen	<b>12.80</b>	<b>17.50</b>	<b>23.20</b>

## PLUMBERS' TOOLS

### PLUMBERS' FRIEND



J-5742

Price, Regular	.....	each	2.00
" 6-inch	.....	"	3.00

### FORCE CUPS



J-5744

Number . . . . .	1	2	3
Price . . . . . each	.50	.75	1.00

### WRIGLEY FLEXIBLE REEL AUGERS

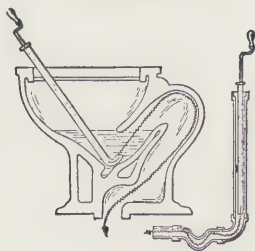


J-5746

For lavatory, bath tub and urinal drains.

Price, 9-foot Reach	.....	each	5.00
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### WRIGLEY FLEXIBLE CLOSET AUGERS



J-5748

The above illustration shows the method of operating the Wrigley Auger through passages until obstruction is reached, then by turning handle obstruction is caught and withdrawn.

Reach	.....	feet	3	6	9
Price	.....	each	4.75	5.50	6.25

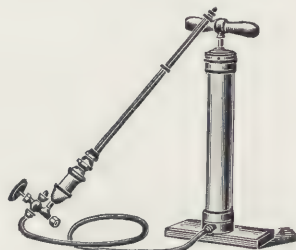
### PLUMBERS' FORCE PUMPS



J-5750

Price	.....	each	10.00
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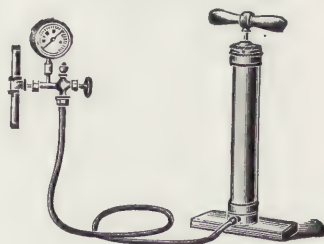
### GAS PROVING PUMPS WITH MERCURY GAUGE



J-5752

Price, with Ether Cup	.....	each	16.00
" Pump and Hose only	.....	"	8.00
" Mercury Gauge Ether Cup and Cock	.....	each	8.00

### WITH SPRING GAUGE



J-5754

Price, with Ether Cup	.....	each	16.00
" Spring Gauge only	.....	"	8.00
" Ether Cup and Cock only	.....	each	3.00



## PLUMBERS' TOOLS

### No. 10 GASOLINE FIRE POTS

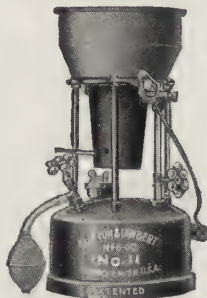


J-5756

always tight and give the user perfect control of the fire.

Capacity.....pints 8  
Price.....each 15.00

### No. 11 GASOLINE FIRE POTS



J-5762

Tank is made of heavy gauge seamless steel with welded bottom. Small castings are malleable iron or brass. Coil is extra heavy pipe. A good rubber bulb supplies the air.

Fitted with extra heavy uprights, large valve and a heavy malleable top plate.

Capacity.....pints 8  
Price.....each 19.60

### No. 20 GASOLINE FIRE POTS

Fitted with automatic brass air pump which is more durable than bulbs.

The tank is made of heavy galvanized iron. All the small castings are made of malleable iron or brass. The coil is extra heavy pipe. The needle point valves, which are fitted with stuffing boxes are always tight and give the user perfect control of the fire.

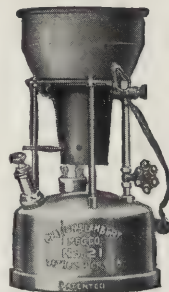


J-5758

Capacity.....pints 8  
Price.....each 16.60

### No. 21 GASOLINE FIRE POTS

Fitted with improved automatic brass pump. Tank is made of heavy gauge seamless drawn steel, reinforced, tinned inside and out and fitted with patented cushion protection band, preventing injury to base of tank.



J-5764

This torch has heavy uprights, large valve, heavy malleable top plate and one-piece steel shield.

Capacity.....pints 8  
Price.....each 21.20

### No. 32 GASOLINE TORCHES



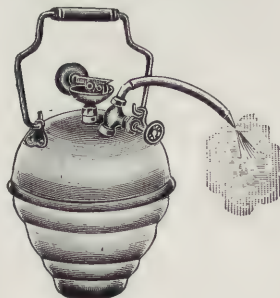
J-5760

This torch makes a perfect fire, whether employed indoors or out, in hard wind or extreme cold. A strong blast heat is generated by a powerful burner of special generator metal, which retains the heat. Every desired adjustment is quickly made.

An unusually small amount of gasoline is required compared with the results obtained in heat efficiency. It has a rigid hook and support for holding soldering coppers.

Capacity.....pints 2  
Price.....each 16.00

### THAWING STEAMERS



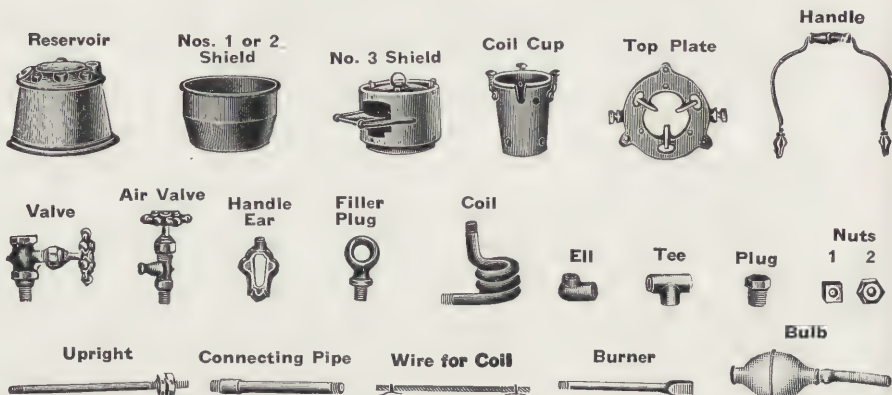
J-5766

Price.....each 11.00



## FIRE POT AND PUMP REPAIRS

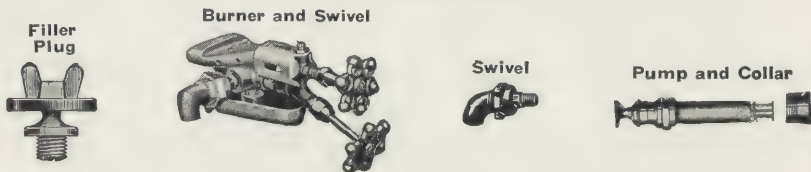
### Nos. 10 AND 20 COIL FIRE POT REPAIRS



J-5768

Description	Each	Description	Each	Description	Each
Reservoir.....	7.00	Handle Ear.....	.30	Nuts, Nos. 1 or 2..	.08
Nos. 1 or 2 Shield..	2.00	Filler Plug.....	.80	Upright.....	.30
No. 3 Shield.....	4.00	Coil.....	1.50	Connecting Pipe....	.30
Coil Cup.....	1.00	Ell or Tee, Mall... .	.25	Wire for Coil.....	.20
Top Plate.....	.80	Ell, Brass.....	.35	Burner.....	.35
Handle.....	1.00	Tee, ".....	.50	Bulb.....	1.00
Valve.....	1.50	Plug.....	.20	Brass Pump for No. 20..	2.60
Air Valve.....	1.00				

### FIRE POT REPAIRS



J-5770

Description	Each	Description	Each	Description	Each
Filler Plug.....	1.50	Burner and Swivel..	8.00	Pump for Fire Pot..	2.60
" " Collar.....	.30	Swivel.....	2.00	" Collar.....	.30

### PUMP REPAIRS

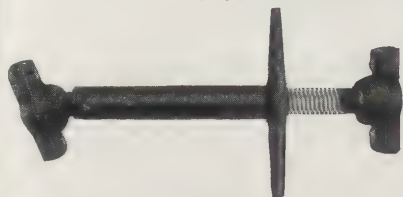


J-5772

Description	Each	Description	Each	Description	Each
Cup Leathers.....	.20	Cork Seat.....	.10	Plunger Rod.....	.40
Hexagon Nuts.....	.10	Springs (Two)....	.10	" Complete ..	1.00
Pump Caps.....	.20	Cork Holder.....	.20	Pump ".....	2.60
Plunger Knobs....	.20	End Plates.....	.20	" Collar.....	.30

## TRENCH BRACES

### EXTENSIBLE ALL IRON TRENCH BRACES



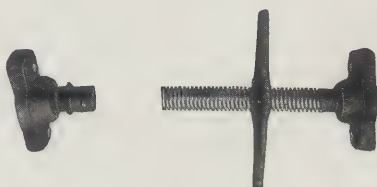
J-5774

This brace is light and strong and is easily adapted to any width of ditch by merely changing the tubing, which is standard gas pipe. The screws have double threads, giving quick travel to the lever nut. Extensible to about one-half the length of the screw.

Size of Screw Inches	Length of Brace Closed Inches	Weight per Dozen Pounds	Price per Dozen	Size of Screw Inches	Length of Brace Closed Inches	Weight per Dozen Pounds	Price per Dozen
1½x11	16	200	23.00	1½x18	42	312	28.00
1½x12	18	210	23.00	1½x18	48	325	29.00
1½x14	21	222	24.00	2 x18	36	542	51.00
1½x14	24	234	24.00	2 x18	42	564	52.00
1½x16	27	246	26.00	2 x18	48	586	53.00
1½x16	30	256	26.00	2 x18	54	608	54.00
1½x18	36	280	27.00	2 x18	60	630	55.00

### EXTENSIBLE TRENCH BRACE FITTINGS

Duff trench braces are furnished in this form to contractors who wish to put on pipe to suit themselves. Ordinary gas pipe is all that is required for the barrel. No machine work is necessary other than to drill a small hole in one end of the pipe which permits the insertion of a cotter pin which holds the brace together. The screws used in all styles of trench braces are of the same standard. Thus a screw can be used either in connection with pipe or with washer plates on timber braces. Extensible to about one-half length of screw.

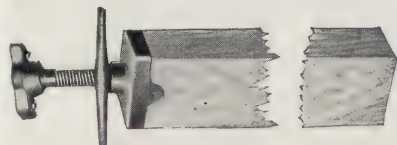


J-5776

Size of Screw Inches	Weight per Dozen Pounds	Price Complete per Dozen	Price Screw Ends only per Doz.	Size of Screw Inches	Weight per Dozen Pounds	Price Complete per Dozen	Price Screw Ends only per Dozen
1½x12	185	20.00	15.00	1½x18	208	23.00	18.00
1½x14	192	21.00	16.00	2 x18	440	45.00	33.00
1½x16	204	22.00	17.00	.....	.....	.....	.....

### SCREW FITTINGS FOR TIMBER BRACES

This style of brace is used in any width of trench from 2 to 30 feet. It will be found especially valuable in wide and deep trench work. It is also used to good advantage in vertical bracing. When required caps can be furnished for the butt end of the brace. Timbers are not furnished. In ordering, give diameter and length of screw and size of cap wanted. Extensible to about one-half the length of the screw.



J-5778

Size Screw Inches	Size of Cap Inches	Weight per Dozen Pounds	Price per Dozen	Price Butt Caps per Doz.	Size Screw Inches	Size of Cap Inches	Weight per Doz. Pounds	Price per Dozen	Price Butt Caps per Doz.
1½x14	4x4	175	18.00	3.00	2x18	8x 8	410	40.00	7.00
1½x14	6x6	192	20.00	4.00	2x18	10x10	450	42.00	10.00
1½x18	6x6	214	22.00	4.00	2x18	9x12	444	44.00	11.00
2 x18	6x6	384	38.00	5.00	.....	.....	...	.....	.....

## STEEL TOOL CHESTS

**STYLE A**



**J-5780**

**STYLE B**



**J-5782**

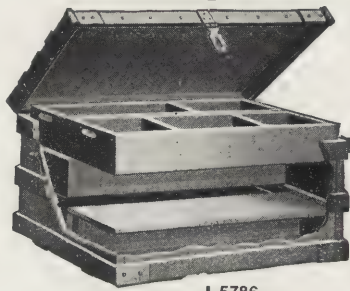
Number.....	1	2	3	4	5
Length..... inches	24	30	36	42	48
Width..... "	12	15	17	20	22
Depth..... "	11	14	16	19	20
Price, Style A with One Drawer..... each	18.50	25.00	28.00	32.00	36.00
"    "    A    "    Two Drawers..... "	21.00	27.00	29.50	33.00	38.50
"    "    B    "    One Drawer..... "	19.50	27.00	30.00	33.50	37.50
"    "    B    "    Two Drawers..... "	20.00	28.00	30.50	35.00	39.00

**STYLE C**



**J-5784**

**STYLE D**



**J-5786**

Number.....	0	1	2	3	4	5	6	7	8
Length..... inches	24	30	36	42	48	54	60	66	72
Width..... "	12	12	12	12	12	12	12	12	12
Depth..... "	11	11	11	11	11	11	11	11	11
Price..... each	15.75	18.50	22.00	25.00	29.00	33.50	36.00	39.00	43.00

**STYLE C**

**STYLE D**

Number.....	1	2	3	4	5
Length..... inches	24	30	36	42	48
Width..... "	12	15	17	20	22
Depth..... "	11	14	16	19	20
Price..... each	23.00	31.00	34.00	38.00	42.00

These chests are made of  $\frac{1}{16}$ -inch cold-rolled steel with malleable iron corners and hard wood braces and fitted with wrought iron hinges and hasps, brass locks and keys and bolts to screw down cover at front corners.



# PIPE AND MONKEY WRENCHES

## TRIMO PIPE WRENCHES

### REGULAR



J-5788

### NARROW JAW



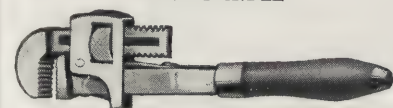
J-5790

Length, Open.....inches	6	8	10	14	18	24	36	48
Takes Pipe....."	$\frac{1}{8}$ to $\frac{1}{2}$	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to 2	$\frac{1}{4}$ to $2\frac{1}{2}$	$\frac{1}{2}$ to $3\frac{1}{2}$	1 to 5
Price.....each	2.00	2.25	2.50	3.50	5.00	7.25	13.50	20.00
" Movable Jaws... "	.75	.80	.85	1.15	1.75	2.25	4.35	7.50
" Nuts..... "	.12	.15	.20	.30	.35	.55	1.10	1.50
" Inserted Jaws... "	.35	.40	.50	.60	.70	.80	1.10	2.00
" Frames..... "	.38	.42	.50	.60	.75	.95	1.70	2.20
" Springs..... "	.03	.03	.03	.03	.04	.04	.04	.04
" Frame Pins..... "	.03	.03	.04	.04	.04	.04	.05	.05
" Jaw..... "	.03	.03	.04	.04	.04	.04	.05	.05
" Steel Handles... "	.95	1.00	1.10	1.50	2.25	3.50	7.00	10.50
Wood Handles with Ferrule..... "	.16	.16	.18	.25	....	....	....	....
Nut Guards.....per pair	.15	.15	.20	.30	.35	.45	.55	.65

Narrow jaw steel handle pipe wrench in 3 sizes only, 6, 8, and 10 in. same list.

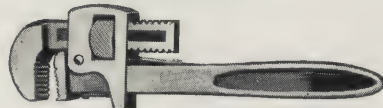
## STILLSON PIPE WRENCHES

### WOOD HANDLE



J-5792

### STEEL HANDLE



J-5794

Length, Open.....inches	6	8	10	14	18	24	36	48
Takes Pipe....."	$\frac{1}{8}$ to $\frac{1}{2}$	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to 2	$\frac{1}{4}$ to $2\frac{1}{2}$	$\frac{1}{2}$ to $3\frac{1}{2}$	1 to 5
No. of Springs to each Wrench....	1	1	3	3	3	3	1	1
Price.....each	2.00	2.25	2.50	3.50	5.00	7.25	13.50	20.00
" Jaws..... "	.75	.80	.85	1.15	1.75	2.25	4.35	7.50
" Frames..... "	.38	.42	.50	.60	.75	.95	1.70	2.20
" Adjusting Nuts... "	.12	.15	.20	.30	.35	.55	1.10	1.50
" Wood Handles... "	.16	.16	.18	.25	....	....	....	....
" End Nuts..... "	.15	.15	.20	.20	....	....	....	....
" Frame Pins..... "	.03	.03	.04	.04	.04	.04	.05	.05
" Spring Rivets... "	.01	.01	.02	.02	.02	.02	.02	.02
" Springs..... "	.10	.10	.10	.10	.10	.11	.13	.13

## MONKEY WRENCHES



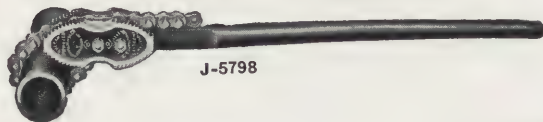
J-5796

Size.....inches	6	8	10	12	15	18	21
Opens....."	$\frac{7}{8}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{1}{8}$	$2\frac{3}{8}$	$3\frac{1}{8}$	4
Price, Black.....per dozen	15.00	18.00	22.00	28.00	38.00	48.00	58.00



## CHAIN PIPE WRENCHES, PIPE WRENCHES, ETC.

### IMPROVED VULCAN CHAIN PIPE WRENCH WITH FLAT LINK CHAIN



J-5798

### FALCON CHAIN PIPE WRENCH



J-5800

### IMPROVED VULCAN CHAIN PIPE WRENCHES

These wrenches are made from drop-forged and otherwise wrought steel and are fully guaranteed.

Have double-ended reversible jaws which may be quickly changed end for end as teeth first in use wear, greatly extend the life of the wrench and assure long service.

The chains are handmade from steel manufactured specially for them.

*Number, Improved .....	30	31	32	33	33½	34	35	.....
Number, Old Style .....	10	11	12	13	13½	14	15	16
Length .....	13¾	20	27	37	44½	50½	64½	87
Takes Pipe .....	1/8 to 3/8	1/8 to 1½	1/4 to 2½	3/4 to 4	1 to 6	1½ to 8	2 to 12	4 to 18
Price, Complete Tool, Either Chain .. each	2.50	3.50	5.00	7.00	9.00	11.00	18.00	40.00
“ Extra Chains, Either Style .. “	.75	1.00	1.50	2.50	3.50	4.50	7.50	20.00
“ “ Jaws .....	per pair	1.00	1.75	2.75	4.00	4.75	5.50	7.50
							16.00	

\*Improved wrenches are designed for flat link chain only.

### FALCON CHAIN PIPE WRENCHES AND FITTINGS

Used where cramped and irregular fittings cannot be handled with broader wrenches. Serviceable on flanges, short nipples and right and left-hand fittings. The wrench is made entirely from wrought steel; single reversible jaw, tempered for file-sharpening; all parts interchangeable and replacements are carried in stock.

Furnished with flat link or cable chain which is interchangeable.

Number .....	41	42	43	43½	44	45
Length .....	20	27	37	44½	50½	64½
Takes Pipe Fittings .....	1/8 to 1½	1/4 to 2½	3/4 to 4	1 to 6	1½ to 8	2 to 12
Price .....	each	3.50	5.00	7.00	9.00	11.00
“ Extra Jaws .....	“	1.75	2.75	4.00	4.75	5.50
“ “ Chains .....	“	1.00	1.50	2.50	3.50	4.50
						7.50

### WALWORTH-PARMELEE PIPE WRENCHES



J-5802

No.	Length Handle Inches	Takes Pipe Inches	Price Complete Each
1	10	3/8 to 1	10.00
2	20	1 " 2	15.00
3	20	2 " 3	19.00
*4	37	3 and 4	....

\*Prices upon application.

### NYE UNION VALVE NIPPLE WRENCHES



J-5804

Price .....	each	1.50
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## PIPE CUTTERS

Genuine Barnes



J-5806

Saunders



J-5808

### GENUINE BARNES

Best material used throughout. Cutter wheels drop-forged from high-grade tool steel.

Number.....	1	2	3	4	5	6	6½	7
Cuts Pipe...inches	⅛ to 1	½ to 2	1½ to 3	2½ to 4	4 to 6	6 to 8	8 to 10	9 to 12
Price.....each	4.50	6.00	10.00	20.00	30.00	40.00	45.00	50.00
" Ex. Wheels.....	.25	.30	.40	.50	.75	.75	.75	.75
" " Wheel Pins, per doz.	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00
" " Hooks, each	1.75	2.60	4.55	9.50	13.75	20.00	23.00	25.00
" " Slides.....	.75	1.00	2.00	4.50	7.00	8.50	9.50	11.25
" " Nuts.....	.25	.25	*	*	*	*	*	*
" " Handles.....	1 00	1.25	2.25	4.50	7.00	9.25	10.25	11.50

\*Nut and hook in one piece in these sizes.

### SAUNDERS

Wearing surfaces of best tool steel and hardened, namely the rollers, pins and wheels.

Number.....	1	2	3	4	5
Cuts Pipe.....inches	⅛ to 1	1 to 2	2 to 3	2½ to 4	4 to 6
Price.....each	3.00	4.50	11.00	18.00	28.00
" Extra Wheels.....	.24	.32	.60	.60	.60
" " Block and Wheel.....	1.25	1.75	2.75	3.50	4.00
" " Rollers.....	.24	.32	.50	.50	.60
" " Pins.....	.10	.10	.15	.15	.15

### TRIMO

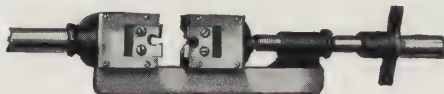
No thread in the frame or roll block to wear out. A small casehardened nut adjusts the handle screw, and is easily and cheaply replaced when worn, making one of the most economical pipe cutters on the market. Converted into a three-wheel cutter by simply substituting two wheels for the two rolls.



J-5810

Number.....	1	2	3
Cuts Pipe.....inches	⅛ to 1¼	¼ to 2	1 to 3
Price.....each	4.50	6.00	10.00
" Extra Wheels.....	.40	.40	.50
" " Rolls.....	.30	.30	.40
" " Nuts.....	.35	.35	.40
" " Handle only, without Screw Rod.....	.50	.50	.50

### BEAVER SQUARE-END



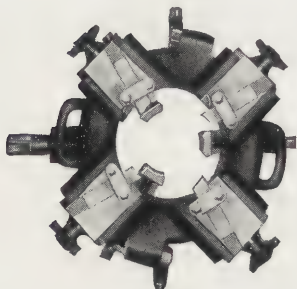
J-5812

It cuts the pipe off square and clean, leaving no burr to ream out or file off. Cannot split pipe, and works easier and quicker than a wheel cutter. No feeding, just pull same as a die stock.

Number.....	1	5	10	15
Cuts Pipe.....inches	⅛ to 1	½ to 2	2½ to 4	2½ to 6
Price, Complete.....each	18.00	20.00	90.00	180.00
" Extra Knives.....	1.20	1.50	2.50	5.00

## PIPE CUTTERS

### TOLEDO RATCHET PIPE CUTTERS



**J-5814**

The Toledo Pipe Cutter are adapted for cutting pipe from  $2\frac{1}{2}$  to 12 inches in diameter.

The cutting is done by four knives which are fed by hand. Two of these knives are beveled across the edge and cut out a V-shaped section of the pipe; the other two knives are square and follow in the V-shaped cut and sweep out the edges, thus eliminating any tendency the knives might have to bind the cut.

It has been practically impossible to cut off extra heavy or double extra heavy pipe with any previously existing hand cutter. These conditions do not affect the working qualities of the new Toledo Cutter in any respect; it merely takes a longer time to cut through the walls of extra heavy pipe than it does to cut standard pipe.

The tool is fastened to the pipe by a four-jawed chuck, each jaw being actuated independently and containing a set of size marks so the tool can be centered on the pipe quickly.

The knives are straight segments of special steel and can be readily reground. They make a clean, sharp cut, and will cut off a section of pipe only  $\frac{1}{16}$  inch long if necessary from end of pipe.

The tool is driven by a pinion working on a bevel gear—the pinion being operated with a ratchet handle.

No.	Capacity Pipe Inches	Price Each
250	$2\frac{1}{2}$ to 6	<b>80.00</b>
350	7 " 10	<b>130.00</b>
400	9 " 12	<b>150.00</b>

Price is for complete cutter with ratchet handle.

### BEAVER SQUARE-END PIPE CUTTERS

Nos. 1 and 5

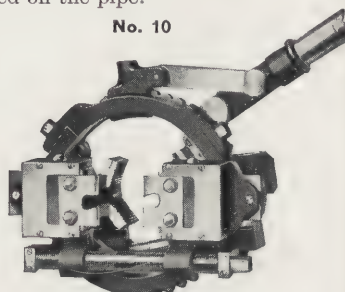


**J-5816**

Nos. 1 and 5 are alike in design, simple, sturdy, one-piece tools.

No feeding is necessary, as the knives are fed automatically by powerful springs which are compressed when the cutter is centered on the pipe.

No. 10

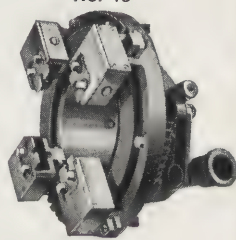


**J-5818**

The No. 10 is ratchet driven, can be used in ditch or at bench and is easily operated by one man.

No. 15

A development of the successful No. 10 cutter. Four cutting knives are used instead of two, making it possible to cut 6-inch pipe as rapidly as the smaller sizes.



**J-5820**

#### Cutting Knives



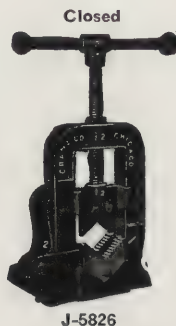
**J-5822**

No.	Cuts Pipe Inches	Price Complete Each	Price Extra Knives per Set
1	$\frac{1}{8}$ to 1	<b>18.00</b>	<b>1.20</b>
5	$\frac{1}{2}$ " 2	<b>20.00</b>	<b>1.50</b>
10	$2\frac{1}{2}$ " 4	<b>90.00</b>	<b>2.50</b>
15	$2\frac{1}{2}$ " 6	<b>180.00</b>	<b>5.00</b>



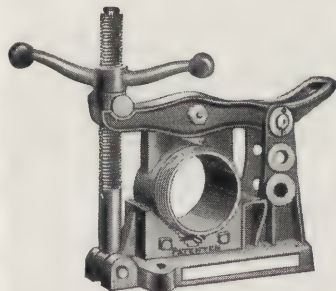
## PIPE VISES

### MALLEABLE IRON



The malleable iron pipe vise is preferable to the cast iron vise in every respect, being much lighter, more durable and cheaper. Has interchangeable cut steel jaws and is constructed to do the heaviest work. Great care is taken in manufacturing the various parts and the strength put where most required.

Number.....	1	2	3	4
Holds Pipe.....inches	$\frac{1}{8}$ to 2	$\frac{1}{8}$ to 3	$\frac{1}{4}$ to 4	2 to 6
Weight.....pounds	16	30	53	76
Price, Complete.....each	10.00	14.00	24.00	30.00
“ Extra Jaws.....per set of 3	.60	.90	3.75	8.50
“ “ Yoke.....each	.60	.85	.....	.....
“ “ Screw.....“	.25	.40	2.25	2.25
“ “ Slide.....“	.10	.15	.75	.80
“ “ Handle.....“	.15	.20	.....	.....
“ “ Bottom Piece.....“	.60	.75	.....	.....
“ “ Hook.....“	.10	.15	.....	.....



### JARECKI

It will be seen by referring to the illustration at the left that the beam which holds the upper jaw of this vise is hinged. By this improvement the pipe can be placed in the vise at any point.

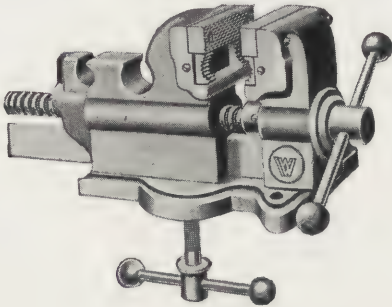
The side opening has other advantages, that the vise may be used for holding pipes while fittings are screwed on one side or both ends, or for taking apart old pipe work.

Number.....	1A	2A	3A	4A
Takes Pipe.....inches	$\frac{1}{8}$ to 2	$\frac{1}{8}$ to 4	$1\frac{1}{2}$ to 6	6 to 12
Price.....each	12.00	16.00	24.00	60.00
“ Beams.....“	.85	1.15	1.60	4.30
“ Handles.....“	.60	.75	.85	2.15
“ Trunnion Washers.....“	.30	.30	.45	.75
“ Jaws.....“	.60	1.00	1.45	3.50
“ Screws.....“	1.10	1.15	2.45	4.00
“ Frames.....“	2.85	4.30	6.45	14.75



VICES

VANDERMAN IMPROVED PATENTED COMBINATION PIPE VISES



J-5830

The Vanderman Vise has large jaw surface for holding pipe, irregular surface work or fittings, forms for bending pipe, form or anvil surface to hammer on. The arrangement of pipe jaws permits of cutting close work. One of the strongest and most practicable vises on the market.

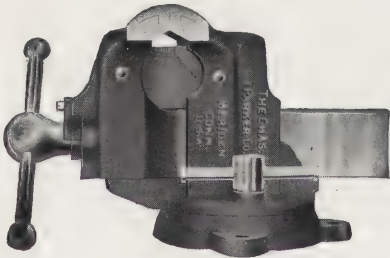
A combination pipe vise, to be useful and practical must admit of each part of the combination being independent of the other. The combinations in the Vanderman Vise are independent of each other and do not conflict. It is a perfect combination vise and has many good advantages. It is strongly made and the parts made to duplicate and will give satisfaction. The sliding bar, screws, handles and joints are made of steel, and all the parts have been put to, and have stood the severest tests.

Number.....	0	1	3
Holds Pipe.....inches	$\frac{1}{8}$ to $2\frac{1}{2}$	$\frac{1}{8}$ to 7	$\frac{1}{8}$ to 10
With Bending Form up to....."	1	$1\frac{1}{2}$	2
Weight.....pounds	49	95	155
Price.....each	15.00	20.00	30.00

Pipe jaws may be instantly removed, reversed or repaired. All parts for Vanderman Vises are made interchangeable.

PARKER COMBINATION SWIVEL BASE

EFFECTIVE FEB. 15, 1919



J-5832

Number.....	87	88	288 $\frac{1}{2}$	289 $\frac{1}{2}$
Width of Jaws.....inches	$3\frac{1}{2}$	$4\frac{1}{2}$	5	6
Jaws Open....."	3	5	6	$9\frac{1}{2}$
Holds Pipe....."	2	3	4	6
Weight.....pounds	47	71	118	185
Price.....each	16.00	22.00	32.00	45.00

## WILLIAMS' VULCAN DROP-FORGED CHAIN PIPE VISES

No. 1



J-5834

For holding pipe, bolts, bars, shafts, etc., from  $\frac{1}{8}$  to 8 inches in diameter. Williams' Vulcan Chain Pipe Vises are sold under an established guarantee, are unbreakable, compact, rapid in action and positive in gripping pipe and rounds.

All are equally serviceable upon and suitable for fastening to bench or post. The smaller sizes are well adapted for carrying by hand or in tool bag.

The vises are made entirely of wrought steel and are most durable in service.

With capacity for the most popular pipe service and designed to prevent the bending of weaker sizes, when gripping pressure is applied, the No. 1 and No. 2 sizes have repeatedly proved their favorable selling qualities. Their compact design enables the use of smaller space in storage or operation,



J-5836

ATTACHED  
TO POST



J-5838

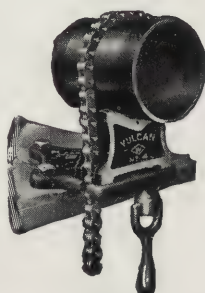
All parts are fully guaranteed, and replacements, seldom necessary, are carried in stock at the factory.

Nos. 1 and 2 are packed one in a box for convenient shelving.

The adjustment is quickly effected by engaging the projecting rivets of the chain with a series of stepped bosses on the base when the pipe may be instantly locked in an unbreakable grip by a turn of the handle.

All orders for chains take screw also, unless otherwise specified.

No. 4



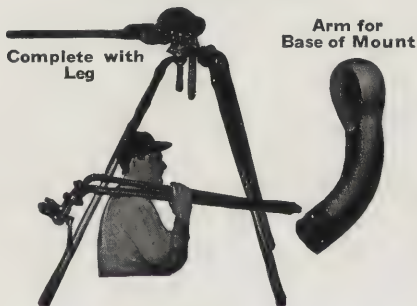
J-5840

No.	For Pipe Inches	Size Folded Inches	Wt. Lbs.	Price Comp. Each
1	$\frac{1}{8}$ to 2	4x 5x 6	4	3.50
2	$\frac{1}{4}$ " 4	6x 8x 8	10	7.50
4	$\frac{3}{4}$ " 8	8x10x12	30	18.00

### EXTRA PARTS

For Vise No.	Jaws per Pair	Chains with Screw	PRICE, EACH		
			Handles with Nut	Nuts	
1	1.50	1.25	.40	1.10	.70
2	3.50	2.40	.70	2.10	1.35
4	9.00	6.00	1.25	3.50	2.00

### PIPE VISE MOUNTS



J-5842

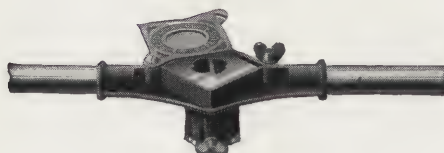
Positive in performance, firm and practical, it is recommended to all in the pipe working field. With or without legs, for use in combination with Nos. 1 and 2 Vulcan Pipe Vises.

No.	For Vulcan Vise No.	Weight, Complete Pounds	PRICE, EACH	
			Arms, Bolts and Nuts Only	Complete with Legs
1	1	11	1.50	3.00
2	2	15½	2.00	4.00

## PIPE STOCKS AND DIES

### MALLEABLE STOCKS AND DIES

Nos. 0 to 1 3/4  
B to D



J-5844

Nos. 2, 3 and 4  
E

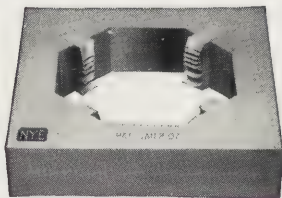


J-5846

Size No.	Lettered Size	Size of Dies with Stock Inches	Dimensions of Dies Inches	PRICE, EACH				
				With Dies Complete	Stocks without Dies	Dies	Bushings	Frames
0	B	1/8 to 1/2	2 x 1 1/2	8.00	3.00	1.40	.30	...
1	C	1/4 " 1	2 1/2 x 3/4	10.50	3.50	1.60	.40	.30
1 1/2	DD	3/4 " 1 1/4	3 x 3/4	9.50	4.00	2.00	.60	.40
1 3/4	D	1 " 1 1/2	3 x 3/4	9.50	4.00	2.00	.60	.40
2	E	1 1/4 " 2	4 x 7/8	14.50	8.50	2.50	.75	.50
3	..	2 1/2 and 3	5 x 1 1/4	35.00	20.00	9.00	2.00	.60
*4	..	2 1/2 " 3	5 x 1 1/4	42.00	26.00	9.00	2.00	.60

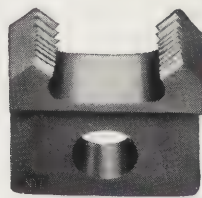
\*Has four arms.

### NYE IMPROVED SKIP-TOOTH SOLID DIES



J-5848

### NYE IMPROVED SKIP-TOOTH ADJUSTABLE DIES



J-5850

Stock No.	Dimensions of Dies Inches	Size of Die Inches	Price Each
0	2x2x2 1/2	1/8, 1/4, 3/8, 1/2	2.75
1	2 1/2 x 2 1/2 x 3/4	1/8, 1/4, 3/8, 1/2	3.00
1 1/2 and 1 3/4	{ 3x3x3/4	{ 1/8, 1/4, 3/8, 1/2, 3/4, 1, 1 1/4, 1 1/2	4.00
2	4x4x7/8	{ 1/2, 3/4, 1, 1 1/4, 1 1/2, 2	5.00
4	5x5x1 1/4	2 1/2, 3	15.00

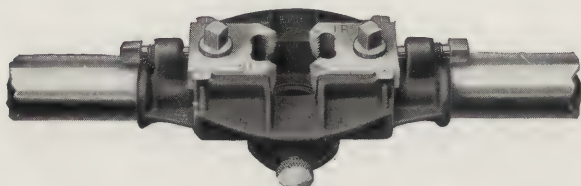
### Fits Armstrong Stocks.

Stock No.	Size of Die Inches	Price Each
1	1/8, 1/4, 3/8, 1/2	3.50
2	1/8, 1/4, 3/8, 1/2, 3/4, 1	3.50
2 1/2	1/2 x 3/4, 1, 1 1/4	5.00
2 1/2	1/2 x 3/4 D. E.	6.00
2 1/2	1 x 1 1/4 D. E.	6.00
3	1/2, 3/4, 1, 1 1/4, 1 1/2, 2	5.00
6	2 1/2 to 3 D. E.	25.00
7	3 1/2 " 4 D. E.	35.00



# REED'S IMPROVED ADJUSTABLE PIPE STOCKS AND DIES, ARMSTRONG TYPE

No. 2 STOCKS



J-5852

These dies are the highest quality tools in every respect, guaranteed throughout. Reed Armstrong Dies cut easier, quicker and cleaner than others. Cutting chasers are set at unequal angles to give a cutting rake. This results in actually cutting off metal of the pipe instead of scraping it off. It has further advantage of considerably lengthening the life of the dies. The dies have plenty of chip clearance, proper angle of throat, and relief chasers and throat.

Reed Armstrong Stocks and Dies are made in standard sizes, perfectly interchangeable with all like parts of other makes of same size. They are also interchangeable with our own stock and die sets for bolts.

## PRICES OF STOCKS AND DIES FOR PIPE

No.	No. of Dies	Threads Pipe Inches	Full List of Dies Made Sizes Inches	Price Complete per Set
1	AP1	4	1/8 to 1/2	9.00
2	AP1	5	1/4 " 1	12.00
2	AP2	6	1/8 " 1	14.00
2	AP3	5	1/8 " 3/4	12.00
2 1/2	AP1	4	1/2 " 1 1/4	14.00
2 1/2	AP3	6	1/4 " 1 1/4	20.00
2 1/2	AP4	7	1/8 " 1 1/4	20.25
3	AP1	3	1 1/4 " 2	18.00
3	AP2	4	1 " 2	21.00
3	AP3	5	3/4 " 2	24.00
3	AP4	6	1/2 " 2	27.00
6	AP1	2	2 1/2 and 3	45.00
7	AP1	2	3 1/2 x 4	55.00
7	AP2	4	2 1/2 x 3, 3 1/2 x 4	75.00

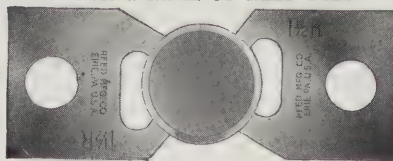
Reed Stocks and Dies are fully guaranteed against any imperfections and workmanship.

All sets are packed in plain shipping cases with hinged covers.

## PRICES OF EXTRA PARTS

		PRICE, EACH				
No.		Extra Dies Right or Left- handed	Extra Bushings	Extra Collar Screws	Extra Adj. Screws	Extra Guide Screws
1	AP1	1.60	.30	.25	.20	.20
2	AP1	2.00	.40	.30	.20	.30
2½	AP1	2.50	.75	.35	.35	.30
3	AP1	4.50	.75	.50	.40	.50
6	AP1	8.50	2.00	.50	.40	.20
7	AP1	10.00	3.00	.50	.40	.20
Extra lead screws for No. 6 stocks,						
3.00 and No. 7, 6.00 each.						

## CUTTING RAKE OF REED DIES



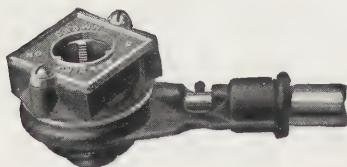
Chasers are set at an angle with the surface of the pipe in such a manner that in threading the pipe, metal is actually cut off instead of being scraped off. This means cleaner, sharper threads and longer life for the dies.



## CROWN DIE STOCKS AND CUTTERS

### REVERSIBLE RATCHET STOCKS

No. 01



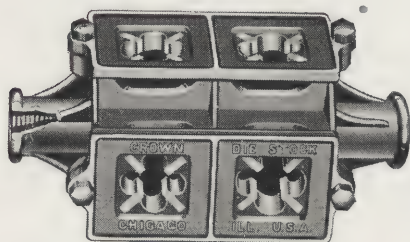
J-5854

Small "Ditch-corner" stocks. A most convenient tool for close work,  $2\frac{1}{2}$  x  $2\frac{1}{2}$ -inch dies are used, in sizes from  $\frac{1}{8}$  to 1-inch.

Price, Stock only, with Handle and 3 Bushings.....	each	8.50
Price, Complete with 4 Dies and 3 Bushings.....	each	19.50
Price, Complete with 6 Dies and 5 Bushings.....	each	25.00

### SOLID BOX DIE STOCKS

No. 4



J-5856

Price, Stock only, with Two Handles.....	each	7.00
Price, Complete, with $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ and 1-inch Dies.....	each	17.50

### PIPE CUTTERS

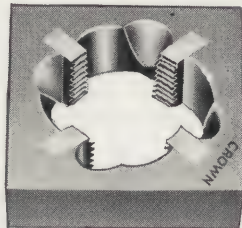


J-5858

With patented diagonally serrated or knurled cutter wheels. Nos. 2 and 3 can be fitted with extra handle, as shown in illustration.

Number.....	1	2	3
Cuts Pipe.....inches	$\frac{1}{8}$ -1	$\frac{1}{2}$ -2	$2\frac{1}{2}$ -4
Price.....each	4.00	6.00	19.00

### EASY CUTTING DIES

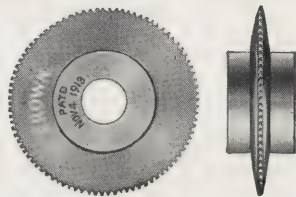


J-5860

Time, labor and money-savers.

Cutting Size of Die Inches	PRICE, EACH		
	SIZE, INCHES		
	$2\frac{1}{2}$ x $\frac{3}{4}$	$3$ x $\frac{3}{4}$	$4$ x $\frac{3}{8}$
	For Stocks, No.		
	1	$\frac{1}{2}$	2
$\frac{1}{8}$	2.50	....	....
$\frac{1}{4}$ , $\frac{3}{8}$	3.00	....	....
$\frac{3}{8}$	3.00	4.00	....
$\frac{1}{2}$	3.00	4.00	4.50
$\frac{3}{4}$	3.00	4.00	4.50
1	3.00	4.00	5.00
$1\frac{1}{4}$	....	4.00	5.00
$1\frac{1}{2}$	....	4.00	5.00
2	....	....	5.00

### DIAGONALLY SERRATED OR KNURLED CUTTER WHEELS



J-5862

Labor-savers and will easily outlast the ordinary kind.

No.	PRICE, EACH			
	Barnes	Saunders	Trimmo	Crown
1	.50	.50	.60	.60
2	.60	.60	.60	.80
3	.80	1.10	.90	1.10
4	1.00	....	....	....
5	1.10	....	....	....
6	1.10	....	....	....

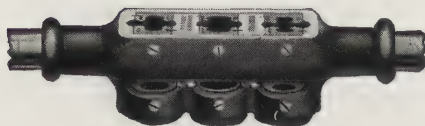
### CUTTER PINS AND ROLLERS

Crown Cutter.....	No.	1	2	3
Pins.....each		.14	.16	.20
Rollers.....	"	.24	.30	.36

## DIE STOCKS

### FOR PIPE

#### TRIO DIE STOCKS



J-5864

Adjustment is easily made for sizes larger or smaller than normal by a part turn in or out of the adjusting screws.

The double bevel on the dies permits reversing when a thread must be cut close to a wall or other obstruction. The stock can then be threaded on face first.

Bushings can be removed to clear couplings for threading close nipples.

Regularly furnished with one stock, three Little Giant Pipe Dies and three bushings.

Briggs standard right hand taper threads furnished unless otherwise specified.

No.	Length Stock Inches	Cutting Sizes Inches	Weight Pounds	Price Each
200A	28	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{3}{8}$	$4\frac{1}{2}$	8.50
200B	28	$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$	$4\frac{1}{2}$	8.50
210A	40	$\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$	10	11.00
210B	40	$\frac{1}{2}$ , $\frac{3}{4}$ , 1	10	11.00

#### DUO DIE STOCKS



J-5866

In design, construction and workmanship, this stock is similar to the Trio, except that it holds two sizes of Little Giant Pipe Dies instead of three.

The dies are adjustable and can be reversed in the collet to cut a close thread. The bushings are removable to pass couplings, etc. The dies rest on machined bearings. These bearings support the dies and insure accurate alignment.

The handles in Trio and Duo stocks are tapered. This taper section gives a long, steady bearing in the handle sockets and makes the handle very strong.

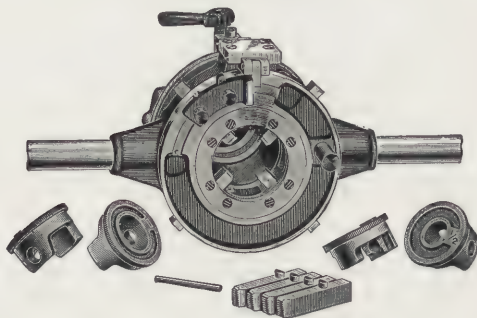
Regularly furnished with one stock, two Little Giant Pipe Dies and two bushings.

Briggs standard right-hand taper threads furnished unless otherwise specified.

No.	Length Stock Inches	Cutting Sizes Inches	Weight Pounds	Price Each
220A	26	$\frac{1}{2}$ , $\frac{3}{4}$	$7\frac{1}{2}$	8.50
220P	26	$\frac{3}{4}$ , 1	$7\frac{1}{2}$	8.50

## HART'S "BUCKEYE" DIE STOCKS FOR PIPE

No. 23½, WITHOUT CUT-OFF



J-5868

The several distinctive features of these tools are best mentioned in detail.

**DIES.**—These are made to cut easily by being formed with a short cutting edge and by the automatically expanding movement which they have as they are screwed onto the pipe, and which renders it possible, with such short edges, to produce threads having the taper essential for making tight joints. These cutting edges are furthermore made so as to induce the dies to do their work without the aid of a leader screw. The remarkably small amount of power needed for such dies is explained mostly by the reduction of the friction generated in the case of dies with cutting edges of the usual length.

**ADJUSTABILITY OF DIES.**—The dies themselves, and the stock are so constructed that a wide range of diameters is covered by one set of dies, a single set being used for 1, 1¼, 1½ and 2-inch pipe, for instance, thus avoiding changes and the care of additional parts.

**AUTOMATIC RELEASE OF DIES.**—As soon as the dies have been screwed onto the pipe far enough to complete a thread, they stop cutting and release themselves, permitting the immediate removal of a tool from its work.

**DIE LEADING DEVICE.**—Instead of a leader screw, ordinarily used with the narrow, expanding style of dies, there is a leader ring which automatically causes the dies to start without any hand pressure, and through its employment the thread cutting that a tool is capable of doing, is not limited simply to threads of the same number to the inch, as are on a leader screw, nor to one direction of lead, making it possible to also thread either right or left-handed. There is no reversing of the dies to be done with this device, nor screwing apart of pieces. Its life is many times greater than a leader screw.

Nos. 25, 26 and 26½ are provided with gears which, with the aid of a ratchet wrench, enable all the work to be done by one man, the same as with the smaller sizes. Nos. 24, 28 and 28½ are of a ratchet pattern, especially adapted to work in close quarters.

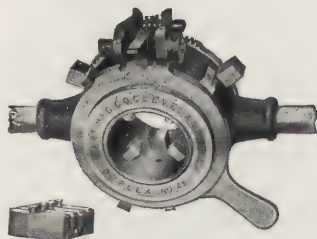
Number	Pipe Threading Sizes Inches	Number of Sets of Dies	PRICE, EACH		Price, Extra Dies per Single Set
			Without Cut-Off	With Cut-Off	
23	1, 1¼, 1½, 2	1	30.00	35.00	5.50
23½	½, ¾, 1, 1¼, 1½, 2	2	35.00	40.00	5.50
24	1½, 2, 2½, 3	2	80.00	88.00	9.00
25	2½, 3, 3½, 4	1	115.00	125.00	9.00
26	4½, 5, 6	1	220.00	235.00	16.00
26½	2½, 3, 3½, 4, 4½, 5, 6	2	240.00	255.00	16.00
28	1, 1¼, 1½, 2	1	36.00	41.00	5.50
28½	½, ¾, 1, 1¼, 1½, 2	2	41.00	46.00	5.50

Dies for Nos. 23, 23½, 24, 25, 28, and 28½ have four pieces to the set. Those for Nos. 26 and 26½ have six pieces.



# HART'S DUPLEX DIE STOCKS

Nos. 41 TO 49



J-5870

These tools are fitted with adjustable dies and guide or centering jaws. What may be spoken of as the distinguishing features between them and other similar tools, are the means for setting the dies to size, for holding the dies in position, and releasing them at the end of a cut. The setting is done with great accuracy and by simply using the hand. The holding does not depend on any frictional clamps, screws or nuts, but on a positive lock. The releasing is accomplished instantly and avoids turning back.

The dies are of the chaser form, the most readily adjusted and sharpened. They do their work while held stationary. Quick adjustment enables the operator to at once alter size of threads, so as to suit any variation in pipe fittings.

The guide jaws center the pipe accurately to the dies; they are adjusted simultaneously to all sizes of pipe. The mechanism for accomplishing it is self-locking, and its adjustment cannot be accidentally disturbed.

The cutting-off device, as has been customary, is also furnished in the equipment of the tools, unless its omission be specified. It cuts the pipe squarely and cleanly.

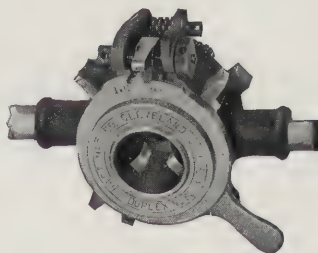
No.	Threads, Pipe, Inches	PRICE, EACH		EXTRA DIES			Price, Extra Cutting-Off Tools Each
		Without Cut-Off	With Cut-Off	Price Complete Set	Single Sets in Complete Set	Price of Single Set (4 Pieces)	
41	$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$	12.00	15.00	5.20	2	2.60	.75
41 $\frac{1}{2}$	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$	14.00	17.00	7.80	3	2.60	.75
42	$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$	15.50	18.50	6.20	2	3.10	.75
42 $\frac{1}{2}$	$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$	17.00	20.00	9.30	3	3.10	.75
43	1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2	22.00	25.00	7.40	2	3.70	.75
43 $\frac{1}{2}$	$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2	25.00	28.00	11.10	3	3.70	.75
44	1 $\frac{1}{2}$ , 2, 2 $\frac{1}{2}$ , 3	40.00	45.00	13.00	2	6.50	.90
45	2 $\frac{1}{2}$ , 3, 3 $\frac{1}{2}$ , 4	55.00	60.00	15.00	2	7.50	.90
*47	$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$	18.50	21.50	6.20	2	3.10	.75
*47 $\frac{1}{2}$	$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$	20.00	23.00	9.30	3	3.10	.75
*48	1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2	25.00	28.00	7.40	2	3.70	.75
*48 $\frac{1}{2}$	$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$ , 2	28.00	31.00	11.10	3	3.70	.75
*49	2 $\frac{1}{2}$ , 3, 3 $\frac{1}{2}$ , 4	60.00	65.00	15.00	2	7.50	.90

\*Ratchet pattern.

Nos. 51 TO 52 $\frac{1}{2}$

These particular sizes of tools are constructed like the Nos. 41 to 45, but for some ranges of diameters they are fitted with dies of the double-ended form, each end of which is capable of threading two diameters. With a single set of such dies, therefore, it is possible to cut threads on four different diameters of pipe, and this makes the tools especially suited to certain classes of work that necessitate their being carried about considerably.

Extra dies per set (four pieces), Nos. 51 and 51 $\frac{1}{2}$ :  $\frac{1}{8}$ -inch, single-ended, 2.60;  $\frac{1}{4}$  to  $\frac{3}{4}$ -inch, double-ended, 5.20. Nos. 52 and 52 $\frac{1}{2}$ :  $\frac{1}{4}$  and  $\frac{3}{8}$ -inch, single-ended, 3.10;  $\frac{1}{2}$  to 1 $\frac{1}{4}$ -inch, double-ended, 6.20.



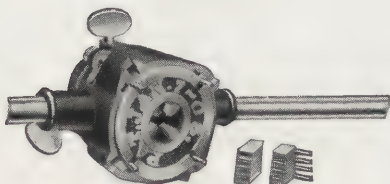
J-5872

Number	Threads Pipe Inches	PRICE, EACH	
		Without Cut-Off	With Cut-Off
51	$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$	12.00	15.00
51 $\frac{1}{2}$	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$	14.00	17.00
52	$\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$	15.50	18.50
52 $\frac{1}{2}$	$\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ , $\frac{3}{4}$ , 1, 1 $\frac{1}{4}$	17.00	20.00



## TOLEDO PIPE THREADING DEVICES

### No. 0 ADJUSTABLE THREADING DEVICES



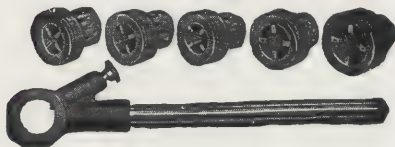
J-5874

No. 0 is a popular little tool. It cuts  $\frac{1}{2}$  and  $\frac{3}{4}$ -inch threads with one set of dies;  $\frac{1}{4}$  and  $\frac{3}{8}$ -inch threads with another set, and  $\frac{1}{8}$ -inch threads with another set. It differs from other tools of the same capacity in that it uses the receding-die principle for threading  $\frac{1}{2}$  and  $\frac{3}{4}$ -inch pipe, thus making it an easy operating tool.

It is very light and compact, being only 24 inches long from tip to tip of the handles.

Threads Pipe.....inches	$\frac{3}{4}$ to $\frac{1}{8}$
No. of Sets of Dies to Stock....	3
Price, Complete.....each	16.00
“ Dies, per Set of 4 Segments	2.50

### No. 00 RATCHET THREADING DEVICES



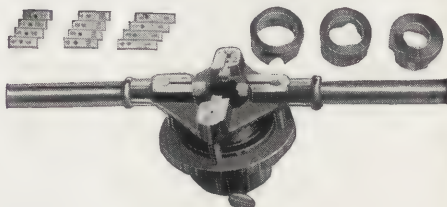
J-5876

This is a remarkably simple, handy little pipe threader. Operates easily, and produces perfectly true tapered threads. Dies changed instantly by pulling the pawl and dropping one die head out or another size in, ready for use.

If the complete tool is not wanted, a combination can be made up as required.

Price, Complete Packed in Paste-board Carton.....each	19.00
Price, Ratchet only.....“	3.00
“ $\frac{1}{8}$ , $\frac{1}{4}$ or $\frac{3}{8}$ -inch Die Heads with Dies.....each	3.00
Price, $\frac{1}{2}$ or $\frac{3}{4}$ -inch Die Heads with Dies.....each	3.50
Price, Dies, per Set of 4 Segments.....	2.00
Price, Special Oak Case.....each	1.00

### No. 1 ADJUSTABLE THREADING DEVICES

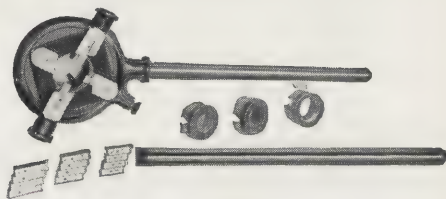


J-5878

No. 1 is and has been for a number of years, a very popular threading device. It threads 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , and 2-inch pipe. It is perfectly easy for one man to cut 2-inch threads with same. It is made both as a right-hand and a left-hand tool—neither will do both. Right-hand furnished unless otherwise specified.

Threads Pipe.....inches	1 to 2
No. of Sets of Dies to Stock.....	4
Price, Complete.....each	24.00
“ Dies, per Set of 4 Segments	2.50

### No. 1A ADJUSTABLE RATCHET THREADING DEVICES



J-5880

No. 1A is in every essential like the No. 1, except that it is equipped with a ratchet. It may be used with two handles as an ordinary die stock, or with one handle inserted in the ratchet case. It is desirable for threading pipe down a trench, or against walls, between rafters, etc. Right-hand furnished unless otherwise specified.

Threads Pipe.....inches	1 to 2
No. of Sets of Dies to Stock.....	4
Price, Complete.....each	30.00
“ Dies, per Set of 4 Segments	2.50

## TOLEDO ADJUSTABLE PIPE THREADING DEVICES

### No. 10 ADJUSTABLE THREADING DEVICES



J-5882

The No. 10 threads the entire range of sizes from 1 to 2 inches with one set of dies.

While this is not the best practice from the standpoint of die service, still this tool is remarkably efficient and threads pipe very easily.

Furnished complete with right-hand dies.

Threads Pipe.....inches	1 to 2
No. of Sets of Dies to Stock.....	1
Price, Complete.....each	28.00
“ Dies, per Set of 4 Segments	2.75

### No. 10A ADJUSTABLE RATCHET THREADING DEVICES



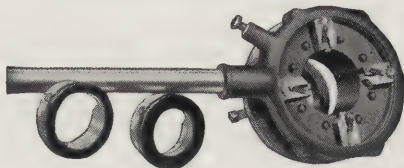
J-5884

This tool is identically the same as the No. 10, except that it has a ratchet attachment, making it desirable for use in close places where the space is restricted.

Threads Pipe.....inches	1 to 2
No. of Sets of Dies to Stock.....	1
Price, Complete.....each	34.00
“ Dies, per Set of 4 Segments	2.75

NOTE.—Left-hand dies can be used in the above tools, and can be furnished on special order. It requires, however, a separate set of left-hand dies for each size pipe.

### No. 1½R ADJUSTABLE RATCHET THREADING DEVICES



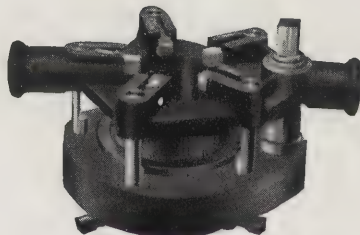
J-5886

No. 1½R is offered for those who do not require to thread pipe larger than 3-inch and who do not want to invest as much money as the Toledo No. 2 costs. Its capacity is limited to two sizes, viz.; 2½ and 3-inch—8 thread. Can be furnished with 2, 2½ and 3-inch, 11½-pitch threads for oil well tubing, when so ordered, at same price.

Threads Pipe.....inches	2½, 3
No. of Sets of Dies to Stock.....	*2
Price, Complete.....each	50.00
“ Dies, per Set of 4 Segments	4.00

\*For 8-thread tool. When furnished 11½-thread, there are three sets.

### No. 2 GEARED ADJUSTABLE THREADING DEVICES



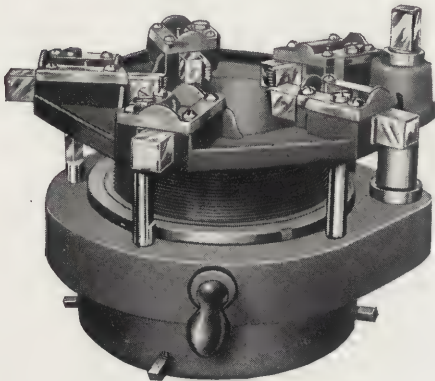
J-5888

This tool is light, compact and very easy in operation. Neither is the ease of operation obtained at the expense of speed. Complete with dies, ratchet and driving cross.

Threads Pipe.....inches	2½ to 4
No. of Sets of Dies to Stock.....	4
Price, Complete.....each	100.00
“ Dies, per Set of 5 Segments	8.00

## TOLEDO ADJUSTABLE PIPE THREADING DEVICES

### No. 25 GEARED ADJUSTABLE THREADING DEVICES



J-5890 7'

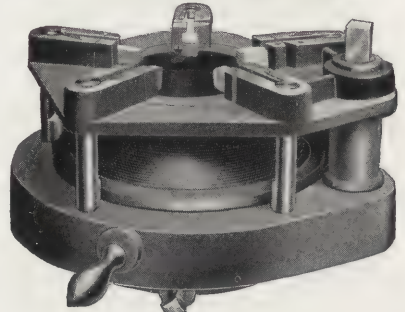
The No. 25 device will thread seven sizes of pipe, from  $2\frac{1}{2}$  to 6 inches inclusive with one set of dies. The die segments are mounted on heavy steel holders, which are pushed backward or forward in their respective slots, thus accommodating the dies to the several sizes of pipe. Each holder contains a spring pawl that engages a ratchet-rack, thus holding the dies in the proper place for the pipe it is desired to thread. The above mechanism in turn engages a taper pin or post, permitting the dies to recede while in operation in conformity with the standard pipe thread taper, thus relieving the dies from friction.

This device is supplied with a set of long barrel bushings, which are bolted into the rear portion of the tool when in use, thus making the centering of the pipe and securing of straight threads easy. The tool is accurately bored to take 6-inch pipe without a bushing, but to make it easier to secure straight threads on this size also, hardened steel buttons are placed around the inside of the barrel of the die head, allowing only one-sixteenth of an inch clearance.

Each outfit is furnished with an extra set of dies, and a ratchet handle and driving cross.

Threads Pipe.....inches	$2\frac{1}{2}$ to 6
Weight, Net.....pounds	152
Price.....each	230.00
“ Extra Dies.....per set	8.00

### No. 3 GEARED ADJUSTABLE THREADING DEVICES



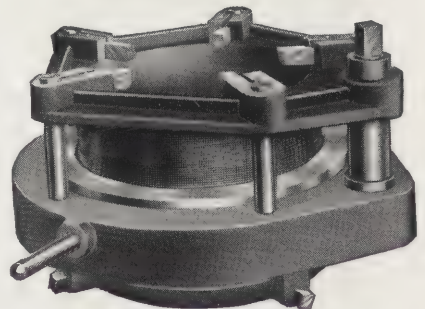
J-5892

This tool is light, compact and easy in operation. It is strictly portable. One man can easily and quickly cut an 8-inch thread with it.

Complete with dies, ratchet and driving cross.

Threads Pipe.....inches	$4\frac{1}{2}$ to 8
No. of Sets of Dies to Stock..	5
Price, Complete.....each	300.00
“ Dies, per Set of 5 Segments ....	12.00

### No. 4 GEARED ADJUSTABLE THREADING DEVICES



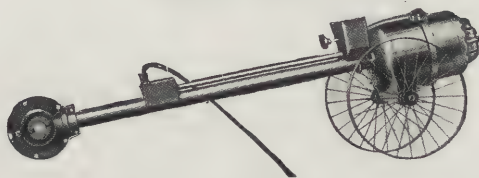
J-5894

The No. 4 is for use in all fields where it is desirable and necessary occasionally to cut threads on large size pipe. It may be taken to the pipe anywhere and operated. Complete with dies, ratchet and driving cross.

Threads Pipe.....inches	9, 10, 12
No. of Sets of Dies to Stock..	3
Price, Complete.....each	500.00
“ Dies, per Set of 5 Segments ...	20.00



## TOLEDO POWER DRIVES AND THREADING DEVICES POWER DRIVES



J-5896

The Toledo Power Drive is a mechanism designed to operate Toledo hand pipe threading and cutting tools and other similar devices by electricity. It is approximately 6 feet long, over all; is mounted on wheels that are 18 inches in diameter; weight from 230 to 260 pounds net, depending upon the type of motor used, the shipping weight being from 325 to 360 pounds.

**Cutting 4-inch Pipe with Toledo No. 250  
Pipe Cutter Operated By Power Drive**



The motor is started and stopped by a push-button switch mounted on the shaft housing, and the power is transmitted to the driving head through a two-speed transmission gearing controlled by a knob handle projecting through the fuse box. On slow speed the driving head rotates at 38 revolutions per minute and at high speed at 57 revolutions per minute.

This drive is primarily designed for operating the large size of Toledo tools, threading pipe from 2½ up to 12 inches. No change is necessary in the threading tool, the operating head of the power drive merely slipping on the pinion shank in place of the ratchet handle.

It is possible, however, to purchase a yoke casting and pair of short handles as the connecting means between the Toledo No. 1 and the Toledo Power drive for threading 2-inch pipe and smaller sizes down to 1-inch.

These drives are not regularly furnished with motors for voltage higher than 230. The price varies, depending upon the type of motor required.

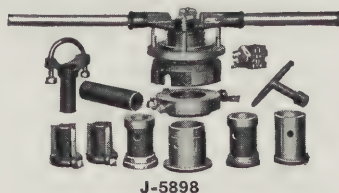
Price, with 60-cycle A. C. Motor, or D. C. Motor.....	each	600.00
" " 25, 30 or 40-cycle A. C. Motor.....	"	700.00
" Special Attachment for No. 1 Tool.....	"	5.00

### No. 100 P. D. THREADING DEVICES

An attachment for use with the power drive. The equipment consists of a chuck that fits into the driving head of the power drive, and of a special threading apparatus that attaches to the chuck for threading pipe from 1 to 2-inch inclusive.

The chuck also makes possible the utilization of a Vosper Pipe Cutter for cutting off pipe from ½ to 2 inches, and the utilization of a No. 00 Toledo Threading Device, or any ordinary stock and die, for threading ½ and ¾-inch pipe.

Equipment is portable, and can be moved from place to place without undue effort.  
Price.....each 60.00



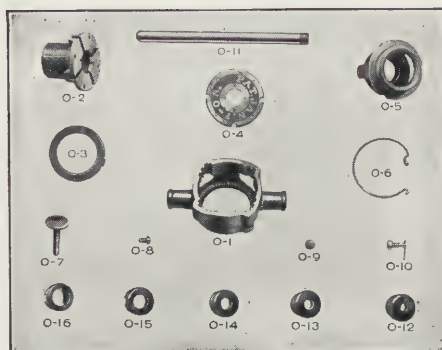
J-5898



## TOLEDO ADJUSTABLE PIPE THREADING DEVICES

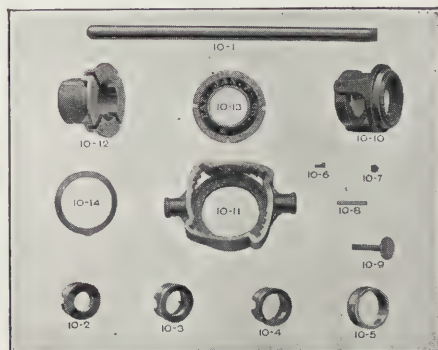
### REPLACEMENT PARTS

No. 0



J-5900

No. 10



J-5902

Number	Description	Price Each
.....	Dies, Right Hand, Complete Set.....	7.50
.....	Dies, Right Hand Single Set.....	2.50
.....	Dies Left Hand, Complete Set.....	12.50
.....	Dies Left Hand Single Set.....	2.50
0- 1	Die Head Case.....	3.75
0- 2	" ".....	2.25
0- 3	Retaining Ring.....	.50
0- 4	Die Head Cover.....	1.25
0- 5	Pipe Holder.....	2.25
0- 6	Spring, including Retaining Screws.....	*.50
0- 7	Thumb Screw.....	.25
0- 8	Cover ".....	.05
0- 9	Die Spring Disc.....	.05
0-10	Locking Pin and Spring.....	.35
0-11	Handles..... per pair	2.00
0-12	Bushing, $\frac{1}{8}$ Inch.....	.30
0-13	" $\frac{1}{4}$ ".....	.30
0-14	" $\frac{3}{8}$ ".....	.30
0-15	" $\frac{1}{2}$ ".....	.30
0-16	" $\frac{3}{4}$ ".....	.30

\*For older models only.

When a new die segment is wanted for a set of old dies, do not ask us to supply that segment unless you send to us all the remaining parts of the set of dies referred to so that the new segment may be properly matched in.

Number	Description	Price Each
.....	Dies, per Set of 4 Pieces.....	2.75
.....	" Left Hand, Complete Set.....	11.00
.....	Dies, Left Hand, Single Set.....	2.75
10- 1	Handles, per pair.....	2.50
10- 2	Bushing, 1 Inch.....	.50
10- 3	" $\frac{1}{4}$ ".....	.50
10- 4	" $\frac{1}{2}$ ".....	.50
10- 5	" 2 ".....	.50
10- 6	Die Head Cover Screw.....	.10
10- 7	" Spring Disc.....	.05
10- 8	" Case Key.....	*.20
10- 9	Thumb Screw.....	.30
10-10	Pipe Holder.....	4.50
10-11	Die Head Case.....	9.00
10-12	" ".....	4.00
10-13	" " Cover.....	1.85
10-14	Retaining Ring.....	1.50

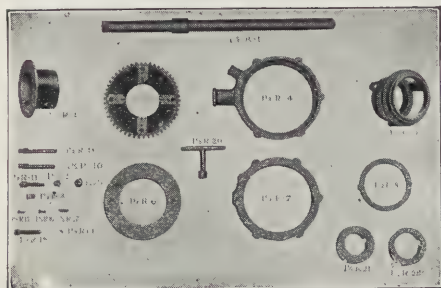
\*Not used on present models.

Please bear in mind that practically all parts of modern hand operated threading tool are moving parts, and subject to wear. Therefore, when a tool needs a die-head or a pipe holder, or a gear part it is practically certain that the remaining portions of the tool have been worn through use and will also need attention or perhaps replacement.

# TOLEDO ADJUSTABLE PIPE THREADING DEVICES

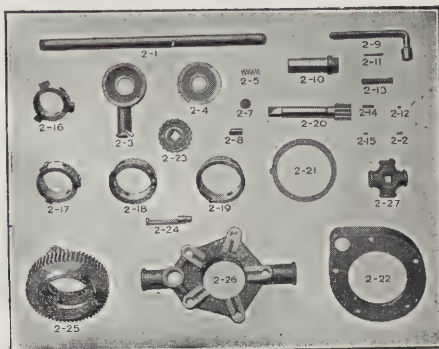
## REPLACEMENT PARTS

### No. 1½-R



J-5904

### No. 2



J-5906

Price, Dies, Complete Set, 11½ Pitch 12.00

Price, Dies, Complete Set, 8 Pitch 8.00

Price, Dies, Single Set . . . per set 4.00

Part No.	Description	Price Each
1½R- 1	Handle . . . . .	3.00
1½R- 2	Lead Screw . . . . .	3.60
1½R- 3	Ratchet Die Head . . . . .	6.00
1½R- 4	" Case . . . . .	4.50
1½R- 5	Pipe Holder . . . . .	6.00
1½R- 6	Taper Pin Plate . . . . .	3.60
1½R- 7	Ratchet Cover . . . . .	2.00
1½R- 8	Retaining Ring . . . . .	1.50
1½R- 9L	Taper Pins . . . . .	.75
1½R- 10S	" " . . . . .	.75
1½R- 11	Ratchet Pawl . . . . .	.90
1½R- 12	" Bushing . . . . .	.60
1½R- 13	" Knob . . . . .	.60
1½R- 14	" Spring . . . . .	.20
1½R- 15	" Case Screws . . . . .	.10
1½R- 16	Die Head Rivets . . . . .	.05
1½R- 18	Set Screws . . . . .	.20
1½R- 17	Die Retaining Spring and Pin . . . . .	}
1½R- 19	Die Retaining Spring Screw . . . . .	
	One of Each . . . . .	.20
1½R- 20	Set Screw Wrench . . . . .	.60
1½R- 21	Bushing, 2 Inch . . . . .	*.90
1½R- 22	" 2½ " . . . . .	.90

\*For 11½-thread tool.

Price, Dies, Complete Set . . . . . 32.00

Price, Dies, Single Set . . . per set 8.00

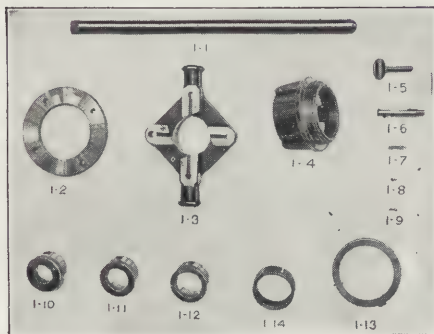
Price, Ratchets, Complete . . each 7.00

Part No.	Description	Price Each
2- 1	Handle . . . . .	2.00
2- 2	Ratchet Cover Screw . . . . .	.10
2- 3	" Case . . . . .	3.00
2- 4	" " Cover . . . . .	1.00
2- 5	" Spring . . . . .	.20
2- 7	" " Washer . . . . .	.10
2- 8	" Pawl . . . . .	.60
2- 9	Set Screw Wrench . . . . .	.60
2-10	Pinion Sleeve . . . . .	3.50
2-11	" Retaining Pin . . . . .	.10
2-13	Set Screws . . . . .	.20
2-12	Die Retaining Spring Screw . . . . .	}
2-14	" " " . . . . .	
2-15	" " Pin . . . . .	}
	One of Each . . . . .	
2-16	Bushing, 2½ Inch . . . . .	1.80
2-17	" 3 " . . . . .	1.80
2-18	" 3½ " . . . . .	1.80
2-19	" 4 " . . . . .	1.80
2-20	Driving Pinion . . . . .	5.00
2-21	Pin Plate Retaining Ring . . . . .	2.00
2-22	Taper Pin Plate . . . . .	4.00
2-23	Ratchet Wheel . . . . .	1.50
2-24	Taper Pin . . . . .	.60
2-25	Gear . . . . .	17.00
2-26	Die Head . . . . .	20.00
2-27	Driving Cross . . . . .	1.00

## TOLEDO ADJUSTABLE PIPE THREADING DEVICES

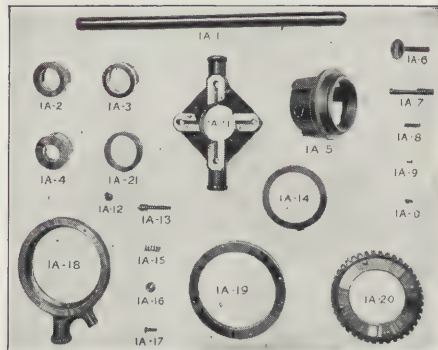
### REPLACEMENT PARTS

No. 1



J-5908

No. 1A



J-5910

Number	Description	Price Each
....	Dies Complete Set.....	10.00
....	"    Single Set.....	2.50
1- 1	Handles, per pair.....	2.50
1- 2	Taper Pin Plate.....	3.00
1- 3	Die Head.....	4.50
1- 4	Pipe Holder.....	3.00
1- 5	Thumb Screw.....	.20
1- 6	Taper Pin.....	.40
1- 7	Die Retaining Spring { one	
1- 8	"    "    Nail { of	.20
1- 9	"    "    Pin { each	
1-10	Bushing, 1 Inch.....	.50
1-11	"    1 1/4 ".....	.50
1-12	"    1 1/2 ".....	.50
1-14	"    2 ".....	.50
1-13	Pin Plate Retaining Ring...	1.50

Please bear in mind that most of the parts of modern hand operated tools are moving parts and subject to wear. There fore, when a tool needs a die-head or a pipe holder, or a gear part, it is practically certain that the remaining portions of the tool have been worn through use, and will need attention, or perhaps replacement.

When a new die segment is wanted for a set of old dies, do not ask us to supply that segment unless you send us all the remaining parts of the set of dies referred to, so that the new segment may be properly matched in.

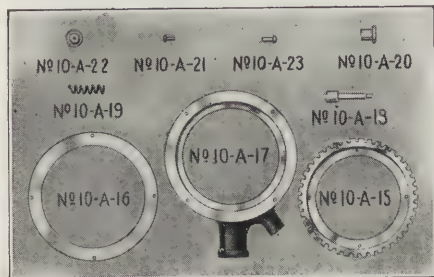
Number	Description	Price Each
.....	Dies, Complete Set.....	10.00
.....	"    Single Set.....	2.50
1A- 1	Handles..... per pair	2.50
1A- 2	Bushing, 1 1/4 Inch.....	.50
1A- 3	"    1 1/2 ".....	.50
1A- 4	"    1 ".....	.50
1A-21	"    2 ".....	.50
1A- 5	Pipe Holder.....	3.00
1A- 6	Thumb Screw.....	.20
1A- 7	Taper Pin.....	.40
1A- 8	Die Retaining Spring..... { One	
1A- 9	Die Retaining Nail { of	.20
1A-10	"    "    Pin { each	
1A-11	"    Head.....	4.50
1A-12	Ratchet Bushing.....	.30
1A-13	"    Pawl.....	.60
1A-14	Retaining Ring.....	1.50
1A-15	Ratchet Spring.....	.20
1A-16	"    Pawl Knob.....	.30
1A-17	Ratchet Case Screw.....	.10
1A-18	"    ".....	3.50
1A-19	"    "    Cover.....	1.30
1A-20	Taper Pin Plate.....	4.00

When ordering repair parts state part and model number of tool, also the correct serial number of tool with prefix letter, if any, stamped on brass name plate. This will enable us to make sure that parts that will fit your tool are supplied.



# TOLEDO ADJUSTABLE PIPE THREADING DEVICES REPLACEMENT PARTS

## No. 10—A

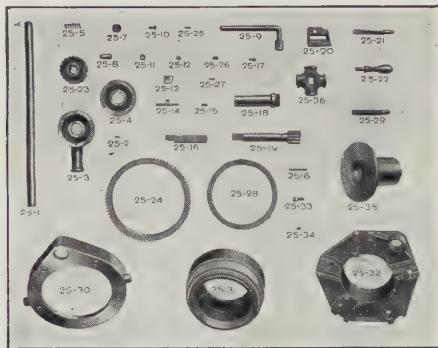


J-5912

The above engraving shows the parts additional to the No. 10 to make it a No. 10A.

Number	Description	Price Each
.....	Dies, per Set of 4 Pieces..	2.75
.....	“ Left Hand, Complete Set.....	11.00
.....	Dies Left Hand, Single Set.....	2.75
10A- 1	Handles..... per pair	2.50
10A- 2	Bushing, 1 Inch.....	.50
10A- 3	“ 1 1/4 “.....	.50
10A- 4	“ 1 1/2 “.....	.50
10A- 5	“ 2 “.....	.50
10A- 6	Die Head Cover Screws..	.10
10A- 7	“ Spring Disc.....	.05
10A- 8	“ Case Key.....	.20
10A- 9	Thumb Screw.....	.30
10A-10	Pipe Holder.....	4.50
10A-11	Die Head Case.....	9.00
10A-12	“ “.....	4.00
10A-13	“ “ Cover.....	1.85
10A-14	Retaining Ring.....	1.50
10A-15	Ratchet Plate.....	3.50
10A-16	“ Case Cover.....	1.30
10A-17	“ “.....	3.50
10A-18	“ Pawl.....	.90
10A-19	“ “ Spring.....	.20
10A-20	“ “ Bushing.....	.60
10A-21	“ Case Screw.....	.70
10A-22	“ Pawl Knob.....	.60
10A-23	“ Plate Rivets.....	.05

## No. 25



J-5914

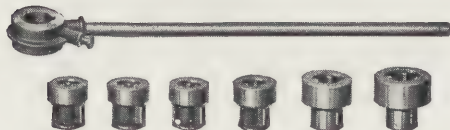
Number	Description	Price Each
.....	Ratchet Complete.....	7.00
25- 1	Handle.....	2.00
25- 2	Ratchet Case Screw.....	.10
25- 3	“ “.....	3.00
25- 4	“ “ Cover.....	1.00
25- 5	“ Spring.....	.20
25- 6	Pinion Retaining Pin.....	.10
25- 7	Ratchet Washer.....	.10
25- 8	“ Pawl.....	.60
25- 9	Set Screw Wrench.....	.60
25-10	Die Retaining Screws.....	.30
25-11	Taper Pin Washer.....	.10
25-12	Die Collars.....	.10
25-13	Dies..... per set	8.00
25-14	Adjusting Ratchet.....	4.00
25-15	Die Holder Spring Cover..	.10
25-16	“ “.....	5.00
25-17	Head Cover Screws.....	.10
25-18	Pinion Sleeve.....	5.00
25-19	“ “.....	7.00
25-20	Die Head Cover.....	.80
25-21	Taper Pins.....	3.00
25-22	Lifting Handle.....	1.50
25-23	Ratchet Wheel.....	1.50
25-24	Gear Band.....	20.00
25-25	Die Holder Spring.....	.10
25-26	“ “ Pawl.....	1.00
25-27	“ “ “ Pin.....	.10
25-28	Pin Plate Retaining Ring..	4.00
25-29	Set Screw.....	2.50
25-30	Taper Pin Plate.....	8.00
25-31	Pipe Holder.....	30.00
25-32	Die Head.....	45.00
25-33	Bushing Screw.....	.20
25-34	Die Head Butch.....	.10
25-35	Large Barrel Bushing, Each Size.....	5.00
25-36	Driving Cross.....	1.00



## BEAVER EASY WORKING DIE STOCKS

### No. 3 BEAVER JUNIOR

#### RATCHET



J-5916

The Beaver Junior Die Stock is simplicity itself. Consisting of a ratchet handle holding separate heads for each size die. It threads  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$  and 1 inch. Can be used in ditches, close to walls, between rafters at the bench, in fact most anywhere. Ratchet mechanism entirely encased in head. Right or left hand as specified.

Threads Pipe.....inches	$\frac{1}{8}$ to 1
Price, Complete, $\frac{1}{8}$ to 1.....each	24.00
“ $\frac{3}{8}$ to 1.....each	18.00
“ Extra Dies (4 chasers)	
Any Size in Range.....each	2.50
Price, Die Heads, $\frac{1}{8}$ , $\frac{1}{4}$ , or $\frac{3}{8}$ Inch.....each	3.00
Price, Die Heads, $\frac{1}{2}$ or $\frac{3}{4}$ Inch.....each	3.50
Price, Die Heads, 1 Inch.....each	4.00
“ Ratchet Handle only “	4.00

### No. 6 BEAVERETTE



J-5918

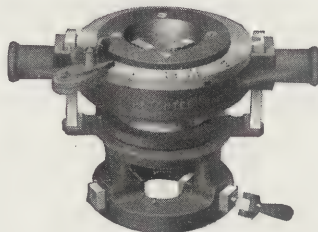
Threads all four sizes without change. The two sets of dies covering the different thread pitches are held in one plate, instantly adjusted to any size by the single handle. It is a compact tool, complete without loose parts. A universal centering device does away with loose bushings.

Right or left hand, as specified. The two sets of dies covering the two thread pitches are operated by a single handle.

It is not complicated, is strong, cuts clean threads and has no parts to lose.

Threads Pipe.....inches	$\frac{1}{4}$ to $\frac{3}{4}$
Price, Complete.....each	25.00
“ Extra Dies, R. or L., $\frac{1}{8}$ , $\frac{1}{4}$ and $\frac{3}{8}$ , $\frac{1}{2}$ and $\frac{3}{4}$ in. per set	3.00

### No. 25



J-5920

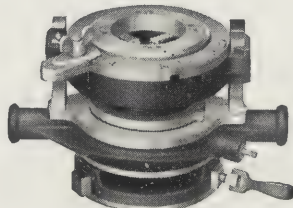
Threads all sizes 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$  and 2 inch, or variations from standard, without changing the dies.

It has a universal chuck that centers all sizes. No loose bushings. The No. 25 is a complete tool, no loose parts, of all steel and malleable iron construction.

Threads Pipe.....inches	1 to 2
Shipping Weight.....pounds	25
Price, Complete.....each	30.00
“ Extra Dies, R. H. “	3.50

The Universal Chuck keeps the pipe always straight without grip screws or bushings to bother.

### No. 26 RATCHET



J-5922

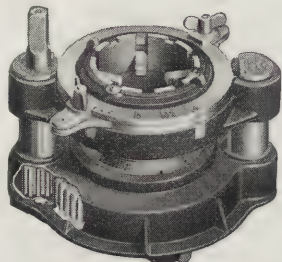
Like the No. 25 in construction. It threads all sizes, 1,  $1\frac{1}{4}$ ,  $1\frac{1}{2}$ , and 2 inch, without changing dies.

Provided with ratchet attachment for cutting in confined places, or can be used as a regular stock. Contains a universal chuck which means pipe is always straight, without grip screws or bushings to bother. Preferred by many operators for regular work because of the more convenient application of power.

Threads Pipe.....inches	1 to 2
Shipping Weight.....pounds	30
Price, Complete.....each	35.00
“ Extra Dies, R. H. “	3.50

## BEAVER EASY WORKING DIE STOCKS

No. 41

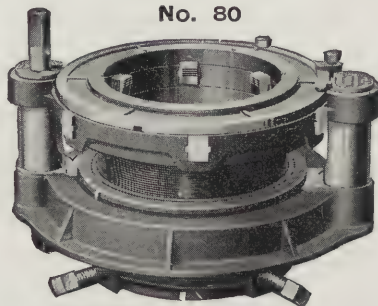


J-5924

Threads all sizes,  $2\frac{1}{2}$ , 3,  $3\frac{1}{2}$  and 4-inch, or variations from standard without changing dies. Gears are cut steel, and in addition, are covered, which protects tool and operator. No dies to look for—they are all in the tool. Threads are easily cut on pipe in a ditch as well as at the bench. Has bushings and grip screws.

Threads Pipe.....inches	$2\frac{1}{2}$ to 4
Shipping Weight.....pounds	100
Price, Complete.....each	110.00
“ Extra Dies, R.H. per set	9.00

No. 80

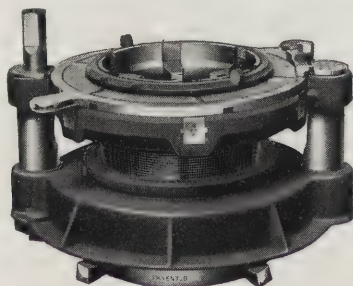


J-5928

Constructed the same as No. 61 and uses two sets of dies. The dies are made with wings which hold them rigidly without interfering with the adjustment. The main body of the tool is steel, all parts made interchangeable. All bearings are bronze brushed.

Threads Pipe.....inches	$4\frac{1}{2}$ to 8
Shipping Weight.....pounds	230
Price, Complete.....each	300.00
“ Extra Dies, R. H., ( $4\frac{1}{2}$ to 6), (7 to 8).....per set	20.00

No. 61

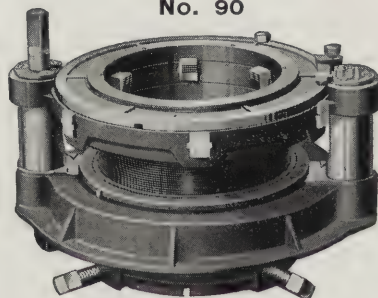


J-5926

Of similar construction as the No. 41, except two sets of dies are used to cover the unusually large range. One set cuts  $2\frac{1}{2}$ , 3 and  $3\frac{1}{2}$  inch, and the other set cuts 4,  $4\frac{1}{2}$ , 5 and 6 inch. No tool required to change the dies. Main body is steel.

Threads Pipe.....inches	$2\frac{1}{2}$ to 6
Shipping Weight.....pounds	200
Price, Complete.....each	220.00
“ Extra Dies, R. H. ( $2\frac{1}{2}$ to $3\frac{1}{2}$ ), (4 to 6) .....per set	14.00

No. 90



J-5930

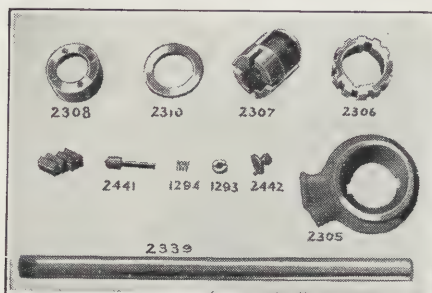
Similar in all respects to the No. 80, but with wider range. Dies are made with wings which hold them rigidly without interfering with the adjustment. The main body of the tool is steel, and all parts made interchangeable.

Threads Pipe.....inches	9 to 12
Shipping Weight.....pounds	300
Price, Complete.....each	500.00
“ Extra Dies, R. H. (9 to 10), (11 to 12).....per set	30.00

## REPAIRS FOR BEAVER STOCKS

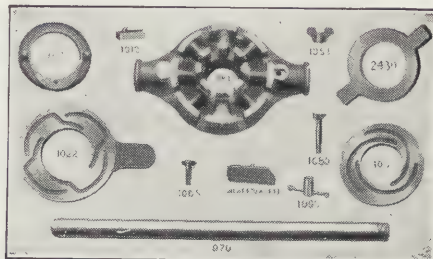
### SMALL SIZES

#### No. 3 BEAVER JR. RATCHET 1/8 TO 1-INCH



J-5932

#### No. 6 BEAVERETTE 1/4 TO 3/4-INCH



J-5934

#### No. 3 BEAVER JR. RATCHET—1/8 TO 1-INCH

Price, No.	2305, Drive Ring.....	each	2.00
"	" 2306, Ratchet Wheel.....	"	1.00
"	" 2307, Die Head, Sizes 1/8, 1/4 and 3/8-inch.....	"	1.50
"	" Die Head, Sizes 1/2 and 3/4-inch.....	"	1.75
"	" " Size 1-inch.....	"	2.00
"	No. 2308, Die Head Cap, Any Size.....	"	.50
"	" 2310, Ratchet Wheel Ring.....	"	.30
"	" 2441, " Pawl.....	"	.40
"	" 1293, " " Nut.....	"	.20
"	" 2442, " " Knob.....	"	.20
"	" 1294, " " Spring.....	"	.20
"	Dies, Any Size.....	"	2.50
"	No. 2339, Handle.....	"	.75

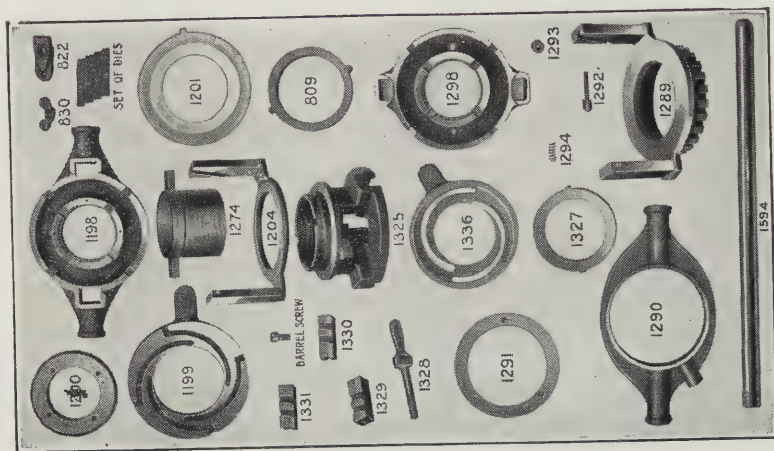
#### No. 6 BEAVERETTE—1/4 TO 3/4-INCH

Price, No.	961, Head.....	each	5.30
"	" 964, Tension Screw Collar.....	"	.50
"	" 970, Handles.....	"	.75
"	" 1011, Guide Cam.....	"	.80
"	" 1012, " Blocks, Set of 3.....	"	.50
"	" 1022, Chaser Cam.....	"	2.00
"	" 1053, Wing Nut.....	"	.10
"	" 1065, Guide Cam Lock Bolt.....	"	.20
"	" 1085, Chaser " " " ".....	"	.30
"	" 1099, " " " " Nut.....	"	.30
"	" 2430, Bottom Collar.....	"	.50
"	Dies, R. or L., 1/4-3/8-inch.....	per set	3.00
"	" " " " 1/2-3/4 ".....	"	3.00
"	" " " " 1/8-inch.....	"	3.00



# REPAIRS FOR BEAVER STOCKS

## SMALL SIZES



J-5936

### FOR No. 25 PLAIN—1 TO 2-INCH AND No. 26 RATCHET—1 TO 2-INCH

No. 809, Retaining Ring.....ea.	.60	No. 1293, Ratchet Pawl Nut.....ea.	.20
" 822, Cam Clamp....."	.50	" 1294, " " Spring....."	.20
" 830, " Wing Nut....."	.20	" 1298, " Die Head....."	4.00
" 1198, Die Head....."	4.00	" 1325, Leader Nut....."	2.50
" 1199, " Cam....."	3.00	" 1327, Bottom Collar....."	.60
" 1200, Top Collar....."	.80	" 1328, Grip Screw....."	.30
" 1201, Dial Plate....."	2.00	" 1329, Grip Guide Block, No. 1...."	.65
" 1204, Post Rings, with Posts....."	4.00	" 1330, Solid " " " 2....."	.60
" 1274, Threaded Barrel....."	1.30	" 1331, " " " " 3....."	.60
" 1289, Ratchet Wheel, with Posts...."	4.50	" 1336, Guide Cam....."	2.50
" 1290, " Driving Ring....."	3.50	" 1594, Handle....."	1.00
" 1291, " Retaining Ring....."	.40	" 1321, Dies....."	3.50
" 1292, " Pawl....."	.50		

### FOR No. 30 RATCHET—2 TO 3-INCH (11½ THREAD—OIL WELL TUBING)

No. 1406, Retaining Ring.....ea.	1.60	No. 1412, Ratchet Pawl Nut.....ea.	.25
" 926, Cam Clamp....."	.60	" 1418, " " Spring....."	.20
" 830, " Wing Nut....."	.20	" " Die Head....."	15.00
" 1398, Die Head....."	15.00	" 1399, Leader Nut....."	6.00
" 1405, " Cam....."	9.00	" 1028, Grip Screw....."	.60
" 1403, Top Collar....."	3.00	" 958, Handle....."	2.00
" 1404, Dial Plate....."	4.00	" 1419, Dies....."	9.00
" 1400, Ratchet Wheel, with Posts...."	7.00	" 1029, Wrench for Grip Screws...."	.80
" 1401, " Driving Ring....."	6.00	" 1407, 2-inch Pipe Bushing....."	1.20
" 1402, " Retaining Plug....."	1.00	" 1408, 2½-inch Pipe Bushing....."	1.20
" 1411, " Pawl....."	.60	.. .. .	..



## OSTER BULLDOG DIE STOCKS

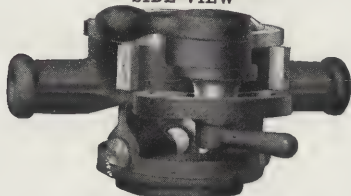
Nos. 101 TO 104½  
TOP VIEW



J-5938

This line of stocks has a positive setting arrangement without the use of any thumbscrews or friction of any kind. The dies are controlled by the lever handle on top, as will be noted in the illustration.

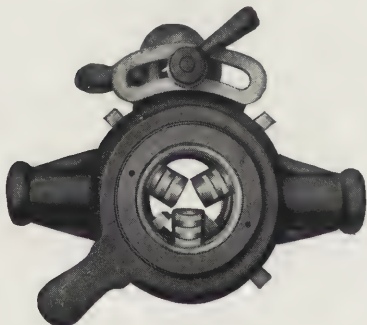
SIDE VIEW



J-5940

By moving this handle to the right as far as it will go, the dies are set and held in place while cutting.

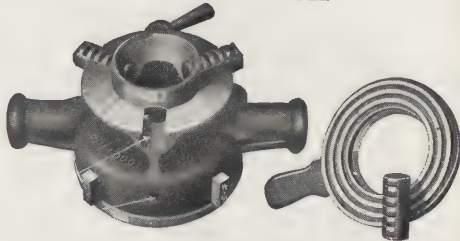
BOTTOM VIEW



J-5942

One movement of the top lever handle will open or close the dies, no resetting or backing off threads. The tool is equipped with adjustable guides which do away with loose bushings. These guides are operated on a scroll and can be set for all sizes the tool will thread.

INSIDE OF SCROLL



J-5944

The scroll is constructed so that the guides are held in any position without locking.

The more pressure on the ends of the guides, the more solid is the locking arrangement.

LEVER LOCKING DEVICE



J-5946

The above illustration shows the lever locking device removed from the stock.

Cuts pipe, 1/8; 1/4 and 3/8; 1/2 and 3/4.

No. 101

Price, Complete.....each	13.00
“ Extra Dies.....per set	*2.50

No. 102

Cuts pipe, 1/4 and 3/8; 1/2 and 3/4; 1 and 1 1/4.

Price, Complete.....each	17.00
“ Extra Dies.....“	*3.00

No. 103

Cuts pipe, 1 and 1 1/4; 1 1/2 and 2.	
Price, Complete.....each	22.00
“ Extra Dies.....per set	*3.50

No. 104

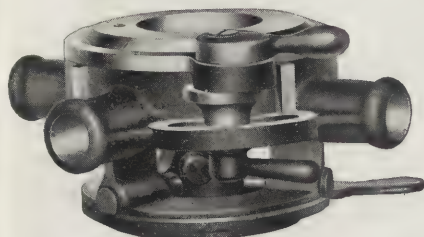
Cuts pipe, 1/2 and 3/4; 1 and 1 1/4; 1 1/2 and 2.	
Price, Complete.....each	25.00
“ Extra Dies.....per set	*3.50

No. 104½

Cuts pipe, 1/4 and 3/8; 1/2 and 3/4; 1 and 1 1/4; 1 1/2 and 2.	
Price, Complete.....each	28.00
“ Extra Dies.....per set	*3.50
*Per set of 4 pieces either right or left-hand.	

## OSTER BULLDOG DIE STOCKS

**Nos. 105 TO 107½**



**J-5948**

The dies and guides are easily controlled by the movement of small lever handles. Any variation in the size of the thread can be obtained, and this same size repeated exactly and without resetting by simply throwing the lever handle back in the cutting position. The size of thread is under perfect control, and threads can be cut in these tools that will make a tight joint without the use of lead or other material.

The operator can make two cuts when he chooses, and in this way the thread can be completed by one man without hard labor, or when preferred, the thread can be finished at one cut and one operation, by two men. Four handles are used for convenience.

The dies on a grindstone can be sharpened when the cutting edges have become dulled.

Prices include the stock or die holder, a complete set of right hand dies, and a set of tubular handles (four pieces).

**No. 105**

Cuts pipe, 1½ and 2; 2½ and 3.  
Price, Complete.....each **40.00**  
" Extra Dies.....per set **\*5.00**

**No. 105½**

Cuts pipe, 1 and 1¼; 1½ and 2; 2½ and 3.  
Price, Complete.....each **43.00**  
" Extra Dies.....per set **\*5.00**

**No. 107**

Cuts pipe, 2½ and 3; 3½ and 4.  
Price, Complete.....each **55.00**  
" Extra Dies.....per set **\*6.00**

**No. 107½**

Cuts pipe, 1½ and 2; 2½ and 3; 3½ and 4.  
Price, Complete.....each **58.50**  
" Extra Dies.....per set **\*6.00**

\*Per set of 4 pieces, either right or left-hand.

**Nos. 102R TO 104R**



**J-5952**

**No. 102R**

Cuts pipe, ¼ and ⅜; ½ and ¾; 1 and 1¼.

Price, Complete.....each **20.00**  
" Extra Dies.....per set **\*3.00**

**No. 103R**

Cuts pipe, 1 and 1¼; 1½ and 2.  
Price, Complete.....each **27.00**  
" Extra Dies.....per set **\*3.50**

**No. 104R**

Cuts pipe, ½ and ¾; 1 and 1¼; 1½ and 2.

Price, Complete.....each **30.00**  
" Extra Dies.....per set **\*3.50**

These tools are of the same general design as Nos. 105 to 107½, but with the addition of a ratchet for operating in close quarters.

**No. 105R**

Cuts pipe, 1½ and 2; 2½ and 3.  
Price, Complete.....each **50.00**  
" Extra Dies.....per set **\*5.00**

**No. 105½R**

Cuts pipe, 1 and 1¼; 1½ and 2; 2½ and 3.  
Price, Complete.....each **53.00**  
" Extra Dies.....per set **\*5.00**

**No. 107R**

Cuts pipe, 2½ and 3; 3½ and 4.  
Price, Complete.....each **60.00**  
" Extra Dies.....per set **\*6.00**

**No. 107½R**

Cuts pipe, 1½ and 2; 2½ and 3; 3½ and 4.  
Price, Complete.....each **63.50**  
" Extra Dies.....per set **\*6.00**

**No. 108R**

Cuts pipe, 2½ and 3; 3½ and 4; 4½ and 5.  
Price, Complete.....each **75.00**  
" Extra Dies.....per set **\*10.00**

**No. 108½R**

Cuts pipe, 1½ and 2; 2½ and 3; 3½ and 4; 4½ and 5.  
Price, Complete.....each **80.00**  
" Extra Dies.....per set **\*10.00**

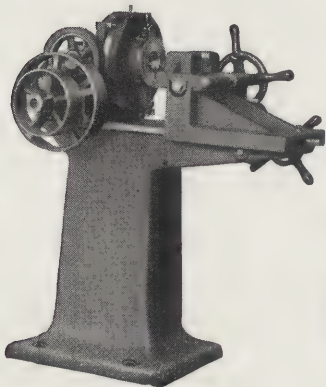
\*Set of 4 pieces, either right or left-hand.

# OSTER PIPE AND NIPPLE MACHINES

## BELT-DRIVEN

No. 300A

Nos. 304A AND 306A

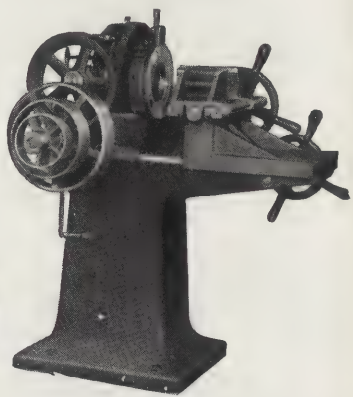


J-5954



NIPPLE JAW

J-5956



J-5958

### No. 300A

Price, Machine, Complete with Countershaft, Oil Pump, Automatic Cut-off, Automatic Die Release and Four Sets of R. H. Pipe Dies, ( $\frac{1}{4}$ and $\frac{3}{8}$ ), ( $\frac{1}{2}$ and $\frac{3}{4}$ ), (1 and $1\frac{1}{4}$ ) and ( $1\frac{1}{2}$ and 2).....each	315.00
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### No. 304A

Price, Machine, Complete with Countershaft, Oil Pump, Automatic Cut-off, Pipe Rest Stand, Automatic Die Release and Four Sets of R. H. Pipe Dies, (1 and $1\frac{1}{4}$ ), ( $1\frac{1}{2}$ and 2), ( $2\frac{1}{2}$ and 3) and ( $3\frac{1}{2}$ and 4).....each	475.00
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### No. 306A

Price, Machine, Complete with Countershaft, Oil Pump, Automatic Cut-off, Pipe Rest Stand, Automatic Die Release and Six Sets of R. H. Pipe Dies, ( $1\frac{1}{4}$ ), ( $1\frac{1}{2}$ and 2), ( $2\frac{1}{2}$ and 3), ( $3\frac{1}{2}$ and 4), ( $4\frac{1}{2}$ and 5) and (6) each	660.00
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## ACCESSORIES AND EXTRAS

For Machine.....number	300A	304A	306A
Price, Extra Pipe Dies, Right or Left (Four Pieces).....per set	4.50	6.00	7.50
Add for $\frac{1}{2}$ and $\frac{3}{4}$ -inch Pipe Dies and Extra Jaws.....		15.00	.....
"    " $\frac{1}{2}$ , $\frac{3}{4}$ and 1-inch Pipe Dies and Extra Jaws.....			26.25
"    "    1-inch Pipe Dies and Extra Jaws.....			15.00
Price, Extra Cutting-off Blades.....each	1.00	1.00	1.00
Deduct for Cut-off, if not wanted.....	37.50	37.50	.....
"    for Automatic Die Release.....	15.00	22.50	22.50
*Add for Nipple Jaws (Two Pieces).....per set	11.00	11.00	15.00
Shipping Weight.....pounds	1100	1625	2400

\*Nipple jaws will hold thread to thread nipples. One set will hold one size nipple only.

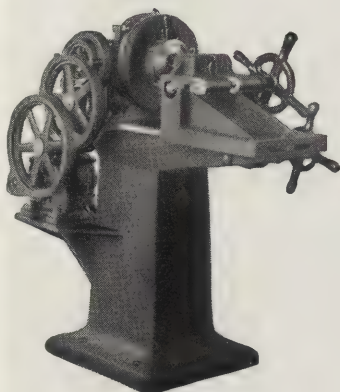
Bolt dies can be furnished for these machines at additional cost.  
 Separate catalogue giving detailed information, on application.



## OSTER PIPE AND NIPPLE MACHINES

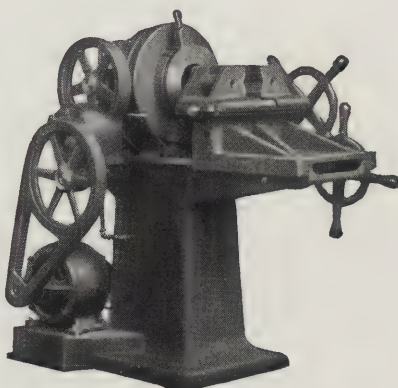
### MOTOR-DRIVEN

**No. 300B**



**J-5960**

**No. 304B**



**J-5962**

**No. 300B**

Has same capacity and the extras and deductions are the same as No. 300A belt-driven machine. Shipping weight, 1000 pounds.

Price, Machine, Complete with Motor with Proper Control, Oil Pump, Automatic Cut-off, Automatic Die Release and Four Sets of R. H. Pipe Dies, ( $\frac{1}{4}$  and  $\frac{3}{8}$ ), ( $\frac{1}{2}$  and  $\frac{3}{4}$ ), (1 and  $1\frac{1}{4}$ ) and ( $1\frac{1}{2}$  and 2).....each **465.00**

**No. 304B**

Has same capacity and the extras and deductions are the same as No. 304A, belt-driven machine. Shipping weight, 1750 pounds.

Price, Machine, Complete with Motor with Proper Control, Oil Pump, Automatic Cut-off, Pipe Rest Stand, Automatic Die Release and Four Sets of R. H. Pipe Dies, (1 and  $1\frac{1}{4}$ ), ( $1\frac{1}{2}$  and 2), ( $2\frac{1}{2}$  and 3) and ( $3\frac{1}{2}$  and 4), each **700.00**

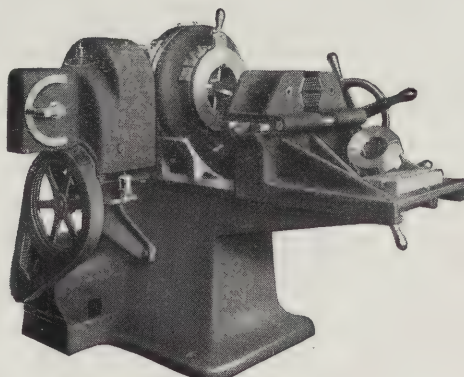
**No. 306B**

Has same capacity and the extras and deductions are the same as No. 306A belt driven machine. Shipping weight, 2700 pounds.

Price, Machine, Complete with Motor with Proper Control, Oil Pump, Automatic Cut-off, Pipe Rest Stand, Automatic Die Release and Six Sets of R. H. Pipe Dies, ( $1\frac{1}{4}$ ), ( $1\frac{1}{2}$  and 2), ( $2\frac{1}{2}$  and 3), ( $3\frac{1}{2}$  and 4), ( $4\frac{1}{2}$  and 5) and (6).....each **925.00**

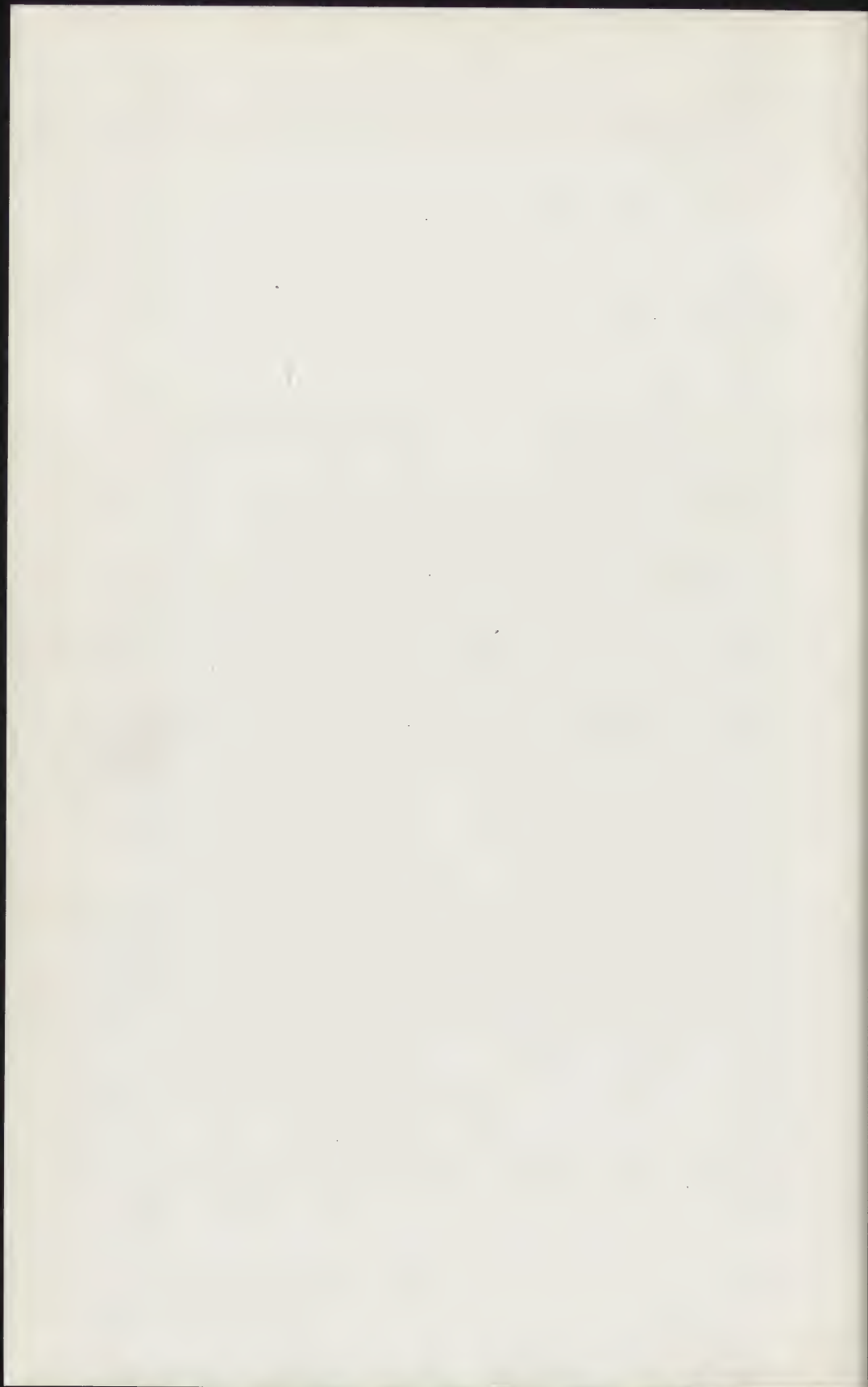
Can also furnish 8-inch machines, either belt or motor-driven, if wanted. Prices upon application.

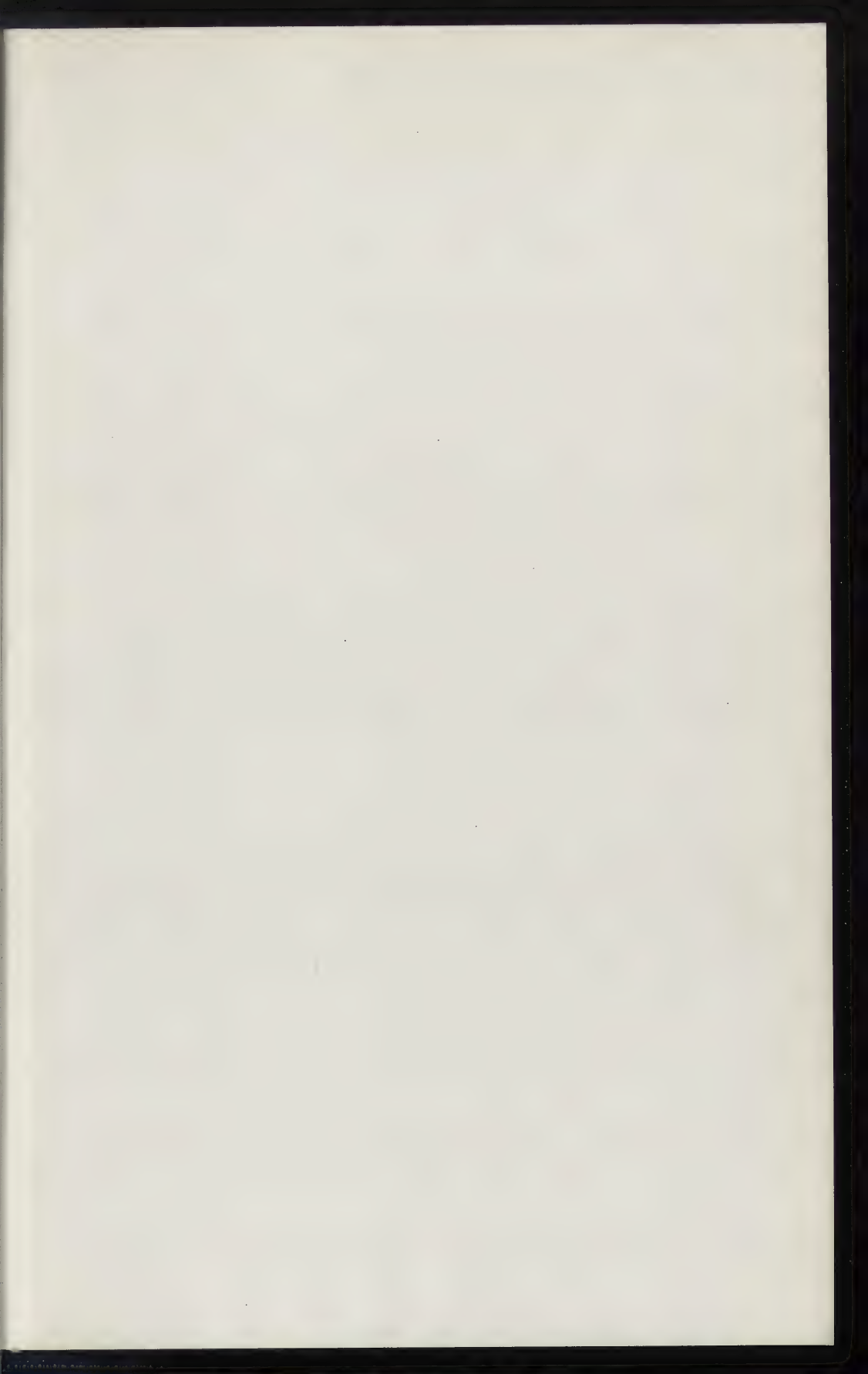
Separate catalogue giving detailed information, upon application.

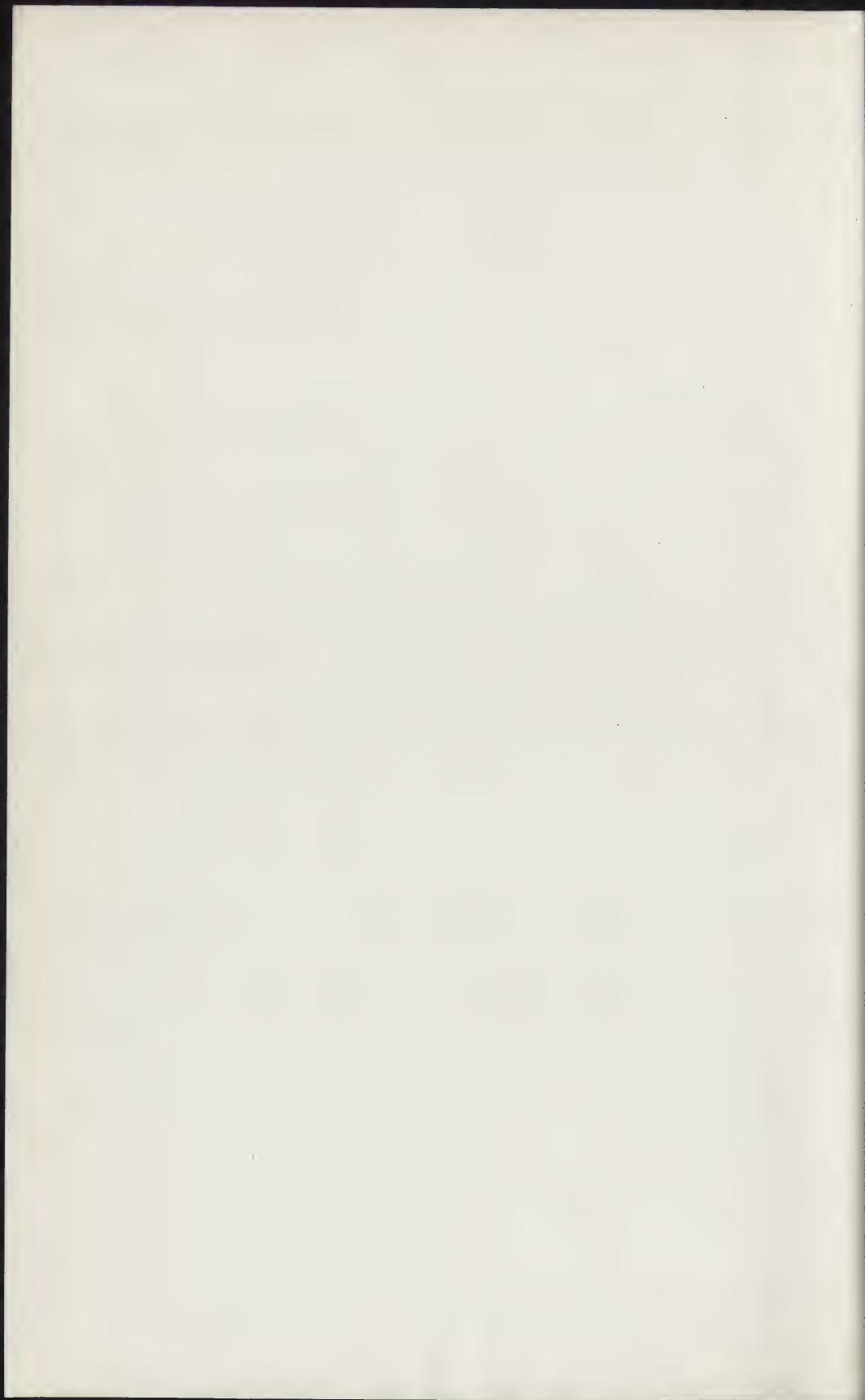


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